# AGRICULTURAL OUTLOOK

May 1987

Economic Research Service United States Department of Agriculture

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# AGRICULTURAL OUTLOOK

May 1987/AO-130







# **Departments**

- 2 Agricultural Economy
  Commodity Spotlights
- 10 Is Expansion Coming In the Hog Industry?
- 11 How Exchange Rates Affect U.S. Pork Trade
- 12 Expected Soy/ Corn Returns Indicate Soybean Acreage
- 14 Electronic Markets Enhance Efficiency
- 16 Farm Finance
- 47 Recent Publications
- 18 World Agriculture and Trade
- 22 Food and Marketing

# **Special Articles**

- 26 Immigration Reform and U.S. Farm Labor
- 29 Some International Experiences with Mandatory Supply Controls

# Statistical Indicators

- 34 Summary Data
- 35 U.S. and Foreign Economic Data
- 36 Farm Prices
- 37 Producer and Consumer Prices
- 39 Farm-Retail Price Screads
- 42 Livestock and Products
- 45 Crops and Products

- 49 World Agriculture
- 50 U.S. Agricultural Trade
- 53 Farm Income
- 56 Transportation
- 56 Indicators of Farm Productivity and input Use
- 56 Food Supply and Use

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# Brief... News of Soybean Acreage, the Wheat Market, the CPI

Economic growth and lower prices are contributing to substantial gains in world crop consumption, but trade in most commodities is showing only a weak recovery. Nevertheless, lower loan rates and Government trade programs are helping the United States recover lost shares of world markets, and export prospects are improving for feed grains, soybean meal, and soybean oil. Corn sales to Japan, Korea, and the USSR have picked up.

The U.S. livestock and poultry sectors are benefiting from lower feed prices. Total meat supplies will likely approach a record in second-half 1987. Although beef supplies are declining, hog inventories will expand and poultry production will continue to gain.

U.S. imports of pork and live hogs are forecast to drop this year, while exports will rise. Canadian hogs are now priced lower than U.S., but some strengthening of the Canadian dollar is forecast for late 1967. So. U.S. imports of Canadian hogs will likely slow by yearend. U.S. pork exports to Japan are rising as the yen strengthens.

World wheat utilization has risen to an estimated 517 million metric tons this year, compared with 235 million in 1960. The average gain has been about 11 million tons per year. If that rate prevails until 2000, world wheat use will rise to about 660 million metric tons. Most of the increase is occurring in low-income countries where per capita food consumption still has not reached its physical limits and where grains, rather than meat, are the principal food.

About two-thirds of U.S. soybean acreage is in the North Central region, where corn and soybeans are grown primarily as competing crops or in rotation. Consequently, soybean-corn price ratios have been assumed to reflect farmers' expectations of returns at harvest time.

However, a ratio of soybean and corn expected net returns more fully re-



flects farmers' choices when making planting decisions. One reason is that during the 1980's an increasing share of farmers' revenue for corn has come from Government program payments. Also, corn yields rose an average 3.15 bushels a year during 1969-86, while soybean yields rose only 0.46 bushels.

Florida's orange juice pack could be 14 percent larger than last season because of a bigger crop and higher yields. Spring area for 7 fresh-market vegetables is estimated up 8 percent from 1986. Tobacco growers plan to grow 2 percent more tobacco in 1987, because of larger effective quotas.

Production costs per planted acre for the major crops are forecast to drop 1 to 3 percent in 1987. Total operating expenses—for both crops and livestock—are forecast down 3 to 6 percent, depending on the region.

Variable expenses are showing the largest declines. Reduced fertilizer and agricultural chemical prices are leading the way, in part because of lower 1986 energy costs. Overall, eight of the ten crop categories making up USDA's prices paid index are forecast down for 1987.

The Consumer Price Index has a new look for 1987. The changes result from 5 years of research to update the fixed market basket of goods and services on which the CPI is based. The most significant change is that food has fallen from constituting 19 percent of total consumer expenditures to making up only 16 percent.

Consumer spending for domestically produced farm foods is expected to gain nearly 4.5 percent in 1987, rising to about \$377 billion. Retail food prices are forecast to increase 2 to 3 percent, accounting for much of the rise in spending. The price of food away from home will go up slightly more—3 to 4 percent.

The Immigration Reform and Control Act of 1986 seeks to prevent illegal aliens from working on U.S. farms. However, the new law will grant legal status to many aliens and also help farmers hire foreign seasonal workers legally. On average, about 1.1 million hired laborers were working on U.S. farms at any one time in 1985. Only a small share of these were illegal aliens.

Mandatory supply controls—agricultural policies which administratively determine how much farmers can produce and sell—can be assessed by examining controlled sectors in other countries. Study of the dairy and poultry industries in Australia, Canada, and Israel shows that controls tend to result in stable but higher consumer prices and higher gross incomes for farmers.

However, mandatory controls make it more difficult for new farmers to enter the sector, and farm numbers drop despite the income generated by the controls. In fact, mandatory controls may accelerate the decline in farm numbers, as quota holders take advantage of the lucrative opportunity to sell their quotas and leave farming. Mandatory supply control programs reduce government spending on farm programs, but do not eliminate it: export subsidies and the cost of enforcing production controls can be substantial.



# Agricultural Economy

Over the last 4 years, the trend in overall U.S. indebtedness has been dramatically different from anything seen in the previous 40 years. This change has important implications for U.S. agriculture because it affects the macroeconomic environment in which agriculture must operate.

Total U.S. debt. including debts owed by business, Government, and consumers, stood at 170 percent of GNP at the end of World War II. After an abrupt decline and some instability during the early 1950's, total debt as a percent of GNP grew slowly and steadily through the late 1950's to 1980, when it again reached 170 percent of GNP.

# Composition of U.S. Debt Has Shifted

Federal Government debt as a percent of GNP declined continuously from its 1945 postwar high of 118 percent until it reached a low of 25 percent in 1974. It was almost constant from 1974 to 1980. In contrast, non-Federal debt rose steadily from 52 percent of GNP in 1945 to 143 percent in 1980.

Since 1982, the 35-year trends in total and Federal debt as a percent of GNP have been shattered. By 1986, total debt reached about 210 percent of GNP, owing to a string of record Federal budget deficits and a 22-percentage-point increase in non-Federal debt as a percent of GNP.

# Higher Federal Debt Can Bring Higher Interest, Inflation

Are these increases cause for alarm? If the economy is running substantially under capacity, Government spending with borrowed dollars could kick off faster growth by providing greater demand. On the other hand, an increase in Federal borrowing is generally thought to lead to an increase in inflation-adjusted (real) interest rates, especially if the economy is running near capacity.

If the debt increase causes U.S. real interest rates to rise relative to the rest of the world, U.S. debt becomes more attractive to foreign investors. In their attempt to buy U.S. securities to get the higher interest rates, the foreign investors demand more dollars and drive up the dollar's value relative to other currencies.

The higher exchange rate makes it difficult for domestic producers to sell goods abroad, while making imported goods cheaper to U.S. consumers. A trade deficit is a likely consequence, and sectors of the U.S. economy dependent on exports, such as agriculture, may be hurt under such conditions.

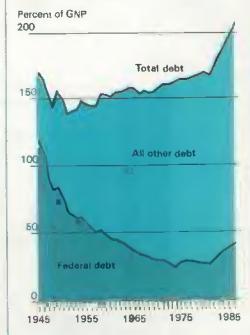
These international effects have in fact occurred and in large part determined the recent performance of the U.S. economy. Between 1982 and 1985, real interest rates were about 4 percentage points higher in the United States than in the rest of the world. Foreign capital inflows have exceeded U.S. outflows for 5 straight years, something that has not happened since at least 1940.

Foreign capital inflows helped to drive the value of the dollar up 37 percent between 1981 and 1985, and prices of imports fell about 20 percent. The 1986 trade and Federal budget deficits were both records, prompting observers to label the situation the "twin deficit problem."

# Dangers to U.S. Economy: Capital Outflows, Trade War

There are two possibilities which, although unlikely, would jolt the U.S. economy in general and agriculture in particular:

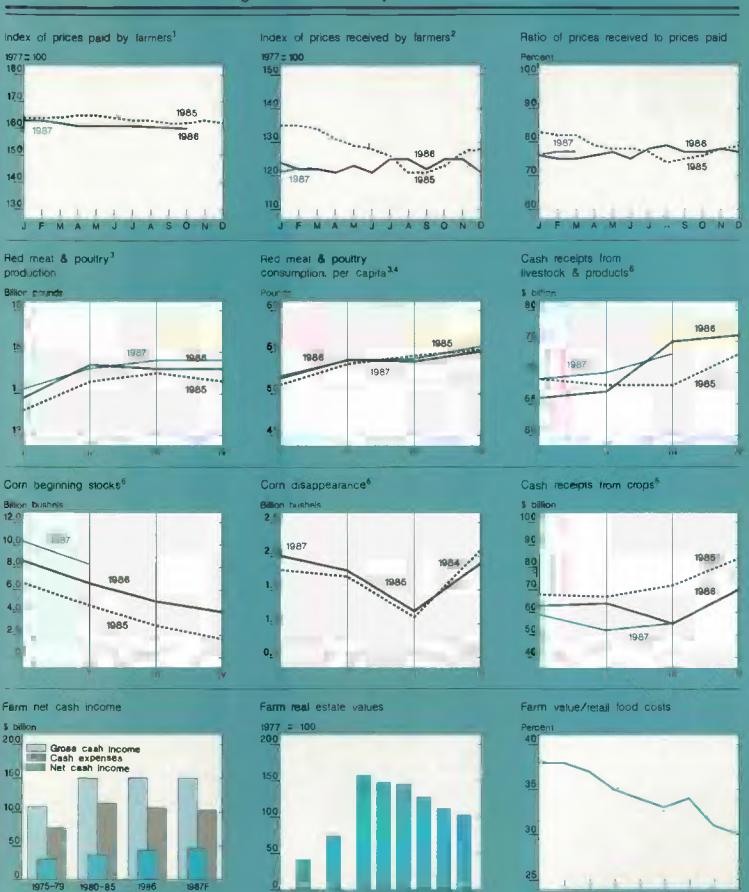
As Percent of GNP, Private Debt Growing Faster Than Federal



- An end to foreign inflows of capital. This could happen if foreigners lost confidence in the United States' ability to reduce its budget deficit. Should the inflows stop, the exchange value of the dollar would plummet, inflation would ignite again, real interest rates would rise, and the general economy would contract. While the fall in the value of the dollar would help agriculture on the export side, rising real interest rates and lower U.S. demand would hurt the sector.
- Protectionist legislation. Other countries would likely retaliate against such legislation, and a trade war could lead to declines in production and employment worldwide. Real interest rates would rise and sectors facing foreign retaliation, such as U.S. agriculture, would be hurt substantially.

While these two extremes are unlikely, their consequences are severe enough to raise concerns about tendencies in this direction. Reducing the Federal deficit will certainly help defuse the current situation, and first steps have been taken in that direction. Until more of the current imbalances are corrected, agriculture will have to operate in a risky macroeconomic environment. [Ralph Monaco (202) 786-1283]

# Prime Indicators of the U.S. Agricultural Economy



For commodities and services, interest taxes, and wages. Beginning in 1986, data are only evailable quarterly. For all farm products, \*\*Calendar quarters. Future quarters are forecasts for livestock, corn. and cash receipts. \*Retail weight. \*\*Seasonally adjusted annual rate.\*\*

\*\*Tong-Fight #2 Mar - May #2 fight - May #

average

#### LIVESTOCK OVERVIEW

The red meat and poultry sectors continue to adjust to lower feed prices, leading to improved returns. Corn prices in mid-March averaged nearly 40 percent below a year earlier, and soybean prices were down 10 percent. Thanks to a record hay crop in 1986, hay prices in March averaged \$57.90 a ton, down nearly 15 percent from a year earlier. These lower input costs will help offset lower hog and poultry prices due to rising meat supplies.

Total meat supplies will likely approach record levels in second-half 1987 because of cyclical expansion of hog inventories and continued increases in poultry production. These increases will more than offset declining beef supplies, particularly in late 1987.

# Hog Producers Expand Herd

The March 1 Hogs and Pigs report indicated that producers in the 10 quarterly reporting States expanded hog numbers on a year-over-year basis this winter, the first such increase since December 1983. The number of hogs kept for breeding totaled 5.23 million head, up 6 percent from a year earlier.

During December-February, the number of sows farrowing totaled 1.96 million head, up 5 percent from the preceding year. In December, producers indicated intentions of having about the same number of sows farrow during December-February as a year earlier. Producers' intentions now are to have 7 percent more sows farrow in March-August than a year ago.

The December-February pig crop was 6 percent larger than a year earlier, and pigs per litter—7.74—set a record for the quarter. The large September-November gilt retention, and further replacement of sows sold for capital gains tax benefits in December, suggest that the upward trend in pigs per litter may slow and perhaps plateau in 1987.

Based on the March 1 inventory of market hogs and projected live hog imports, commercial slaughter for all of 1987 may total about 82.5 million head, up 3 to 4 percent from 1986. The average dressed weight may be about a pound higher than last year. So, pork production for the year may total about 14.6 billion pounds, up 4 percent from 1986.

Although hog prices at the 7 markets have dropped sharply from last summer, returns are still relatively high because of low feed costs. Prices for the year may average in the middle \$40's, after being in the high \$40's during the first half of the year. Reduced beef production and low pork stocks in storage will not completely offset the effects of rising poultry supplies.

## Egg Prices Near Last Year

Egg prices are expected to be weak in May after the Easter holiday in April. Prices for cartoned Grade A large eggs in New York in the second quarter may average 59 to 63 cents per dozen, compared with 1986's 63 cents. Prices during the second half of 1987 may average below the year-earlier level if producers increase egg output slightly as expected.

During January and February, the number of eggs produced rose nearly 1 percent above a year earlier because of more layers. The rate of lay was nearly the same as last year. These trends are expected to continue during most of 1987. Lower feed costs are encouraging increased egg production, but the low returns that have occurred in the past when producers increased production are likely keeping the increase very modest.

#### Broiler Output Grows Again

The number of broiler eggs set and chicks placed thus far in 1987 continues to be well above last year. Output of young chicken meat from federally inspected plants in January and February was 6 percent above last year, and output is expected to be 7 percent above last year in the second quarter. Producers continue to order pullets for the hatchery supply flock, which will provide the basis for expanded production in the second half of 1987.

The 12-cities price for a composite of whole birds, including branded and without giblets, averaged 50 cents per pound during first-quarter 1987, the same as in 1986. With smaller supplies and higher prices for red meats in the second quarter, prices for broilers are expected to average 50 to 54 cents per pound, about the same as last year.

The decline in the dollar relative to the Japanese yen has made U.S. products cheaper in Japan, and broiler exports to Japan are up. Also, the Export Enhancement Program is boosting exports to other purchasers. Thus, broiler exports in 1987 are expected to be greater than in 1986.

# Turkey Production Record Likely

Turkey production appears headed for another record in 1987. Nevertheless, strong sales of whole turkey for holidays, plus everyday consumption of turkey parts and processed products, has kept prices relatively strong. Still, the increase in production during the second quarter will likely cause prices to average below 1986's 68 cents per pound.

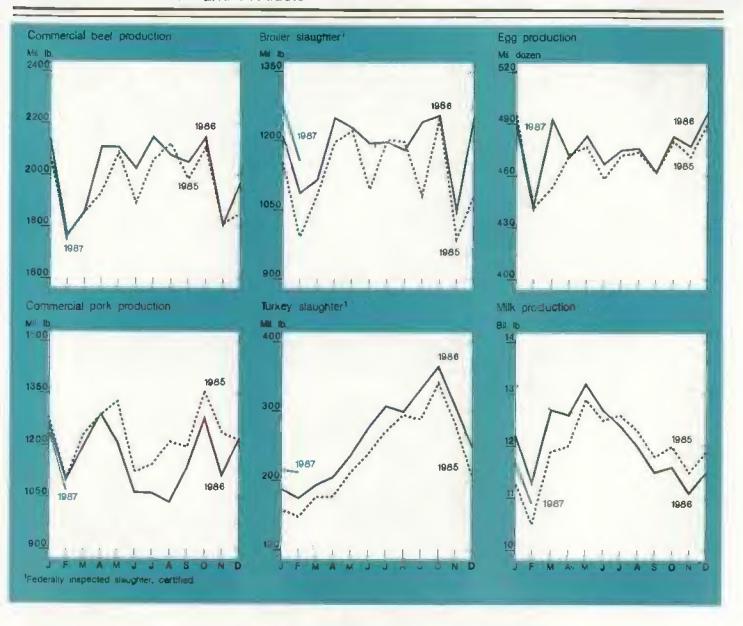
Stocks of frozen turkey were larger than last year during the first 3 months of 1987. Most of the increase was in whole birds, probably for Easter sales. In late spring, cold storage stocks will likely begin to be rebuilt for fourth-quarter consumption. This will likely provide some price strength late in the second quarter.

Based on poults placed that can be slaughtered in the second quarter, output of turkey meat from federally inspected plants may be 19 percent above last year. Since the rate of increase in output usually slows in the major hatching season for second-half production, production in second-half 1987 may be 12 to 14 percent above 1986.

#### Beef Production Level

First-quarter beef production was near a year earlier. Commercial slaughter for the quarter was down modestly, as a 2-percent increase in steer and heifer slaughter almost offset a 12-percent decrease in cow slaughter. Average dressed weights were up about 1 percent from a year earlier.

During 1987, the sharpest yearto-year declines in slaughter are likely to occur in the cow and nonfed steer and heifer classes. Fed steer and heifer slaughter is likely to remain near the larger year-earlier levels. As



the fed steer and heifer proportion of slaughter rises, it will keep average slaughter weights relatively high, because steer and heifer dressed weights are about 200 and 110 pounds heavier, respectively, than cows. However, gains in slaughter weights will be held down by a willingness of cattle feeders to move fed cattle to market ahead of normal marketing schedules.

Live weights of fed steers and heifers slaughtered in the High Plains in March averaged 38 pounds below a year earlier. Late-March blizzards in the major cattle-feeding areas resulted in increased deaths and weight losses

among cattle on feed. Due to the storm, fed cattle marketings have slowed, pushing fed cattle prices up to \$70 per cwt. As weight gains normalize, marketings will get up to speed. However, prices will likely average in the middle to upper \$60's.

Commercial dressed slaughter weights for all types of cattle slaughtered averaged 623 to 629 pounds in 1982 to 1984-649 pounds in 1985 and 1986. Weights in first-quarter 1987, when feedlots were current, averaged 656 pounds. Weights for all of 1987 may average 652 to 654 pounds, assuming feedlot marketings remain current. Although this average is about 4 pounds above 1985, when overweight

feedlot cattle were a problem, the difference in 1987 is due to the shift in the slaughter mix.

# Commercial Dairy Use Up

Commercial use of dairy products in 1986 reached a record 134 billion pounds, up 3 percent from 1985. First-quarter 1987 disappearance was also strong. Commercial use is expected to be up 1.3 perceut in 1987, slightly less than in recent years as economic growth slows and the effects of dairy promotion on the rate of increase wane.

Max 1987 5

Commercial disappearance of butter in 1986 rose about 1 percent, while use of American cheese and other varieties posted increases over 6 percent. Sales of all fluid items in 1986 rose about 1 percent from a year earlier. Sales of lowfat and skim milk Items increased almost 5 percent, while those of whole milk decreased about as much. Sales of frozen desserts gained about 2 percent, while sales of lowfat cottage cheese increased over 8 percent.

For further information, contact: Ron Gustafson, cattle; Leland Southard, hogs; Allen Baker, poultry and eggs; and Sara Short, dairy: (202) 786-1830

# FIELD CROP OVERVIEW

World production and supplies of most crops are record-high or near-record in 1986/87, despite smaller U.S. crops. Economic growth and lower prices are contributing to substantial gains in world consumption, but trade in most crops is showing only a weak recovery.

However, the combination of lower loan rates and Government trade programs, such as the Export Enhancement Program, is helping the United States recover lost shares of world markets. And the past several months have brought improved prospects for U.S. exports of feed grains, soybean meal, and soybean oil.

While foreign production rose in 1986/87, U.S. crop output dropped because acreage fell. Farmers' planting intentions point to continued reductions in U.S. program crop output for 1987/88. Reasons include heavy participation in all commodity programs and the Conservation Reserve Program, increases in the wheat acreage reduction (25 to 27.5 percent) and the feed grains acreage reduction (17.5 to 20 percent), and the voluntary 15-percent paid land diversion program for feed grains.

Total idled area is currently estimated between 69 and 74 million acres, including the 1987 programs and the Conservation Reserve Program (CRP). This total will approach 1983's record of 78 million acres. About 53 million acres will be idled by 1987's acreage reduction and diversion programs. The preliminary estimate for CRP enrollment through April is 19.5 million acres. In the first three signups, 8.9 million acres were enrolled but only 8.2 million were contracted.

U.S. Field Crop Acreage

		Actual		Pro- spective		ge in
Crop	1984	1985	1986	1987	1984	
		Million	acres			cent
Food grains	82.04	78.09	74.43	67.17	-18.3	
Wheat	79.21	75.58	72.03	64.85	-18.1	
Winter	63.42	57.75	53.93	48.20	-24.0	
Durum	3.28	3.21	2.99	3,14	-4,3	
Other spring	12.52	14.62	15.11	13.52	8.0	
Rice	2.83	2.51	2,40	2.32	-18.0	-3.4
Feed grains	122,16	128.16	119.76	106 . 10	-13,1	-11,4
Corn	80.54	83.45	76.67	67.56	-16.1	-11.9
Grain Borghum	17.25	18.29	15.32	11.84	-31.4	-22.7
Barley	11.96	13.16	13.06	11,03	-7.8	-15.5
Oats	12.41	13.26	14.71	15.67	26.3	6.6
Other						
Soybeans	67.76	63.13	61,48	56.89	-16,0	-7.5
Peanuts	1.56	1.49	1.57	1.61	3.2	2.5
Sunflowers	3.75	3.06	2.03	1.68	-55.2	-17.3
Cotton	11.15	10.68	10.06	10.35	-7.2	2.9
Upland	11.07	10.60	9.53	10.24	-7.5	2.9
Pima	0.08	0.084		0,113	37.5	
Total	288.42	284.61	269.33	243.80	-15.5	-9.5

Area placed in the 10-year CRP program through April includes 4.5 million wheat acres; 2.5 million corn; 3.0 million sorghum, barley, and oats; 2.2 million soybean; and 700,000 cotton. Of the total CRP area, 20 percent is located in the Mountain region, 34 percent in the Plains, and 17 percent in the Corn Belt. Only 8 percent is located in the Delta and Southeast.

# Farmers Intend To Plant Less Wheat

Worldwide, a record wheat crop of 529 million tons and a near-record 318-million-ton rice crop mean very large carryouts this season. While world wheat consumption is up more than 6 percent, the largest gain in a decade, ending stocks will swell 9 percent to a record 149 million tons. March 1 U.S. wheat stocks were 2.25 billion bushels, about the same as in 1986. About 65 percent of this was stored off-farm.

U.S. farmers planted 48.2 million acres of winter wheat last fall, about 11 percent below a year earlier. Besides heavy participation in the 1987 wheat program, wet fields reduced plantings in some major areas.

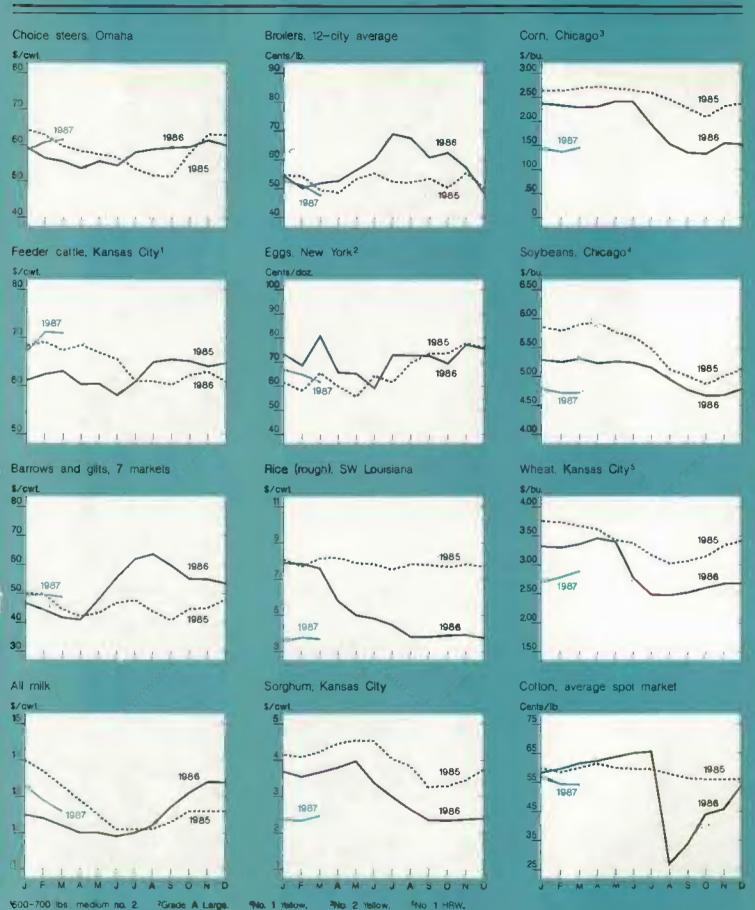
Although farmers reported that they intend to seed 5 percent more acres to Durum wheat this spring, area of other spring wheat is expected to fall 11

percent to 13.5 million acres. Total wheat plantings could be the lowest since 1973. Participation in the rice program will remain nearly universal, and planting intentions are reported to be 2.32 million acres, 3.4 percent below plantings in 1986.

Domestic supply and demand for wheat and rice have changed little in recent weeks. U.S. wheat exports during 1986/87 are expected to be 1.03 billion bushels, the second smallest total in the last decade. Rice exports, with the marketing loan lowering domestic prices to world levels, are forecast to rise 36 percent to 80 million cwt.

Generic certificate exchanges for wheat have picked up during the March-May quarter. Certificates were exchanged for 88 million bushels of wheat in the fall quarter and 70 million in the winter quarter.

Through April 8, certificates have been exchanged for 39 million bushels of wheat, well above the corresponding rate during the three preceding quarters. About 80 percent of the wheat has been exchanged from loans. Certificate exchanges for wheat are anticipated to rise further later in the quarter as farmers make room for the new crop.



# Corn Exports To Rise, Plantings To Fall

Record 1986/87 foreign production of feed grains is nearly offsetting an 8-percent drop in U.S. output, and global production of 835 million tons is down only 1 percent from last year's record. While consumption is projected to rise over 3 percent to 796 million tons, world ending stocks will increase by more than 20 percent. World corn stocks will be up by 26 percent.

Projected world feed grain trade of 86 million tons is up 2.5 percent from last year, and prospects for U.S. exports have improved significantly over the last several months. In February, a 9-percent annual decline was forecast for U.S. corn exports in 1986/87. Currently, a 13-percent increase is anticipated.

U.S. corn sales to Japan, Korea, and the USSR have picked up, and total corn exports for the season now are expected to reach 1,375 million bushels, 134 million above last year. Poorer prospects for Argentina's and South Africa's crops and uncertainty about China's exportable supplies have helped U.S. export prospects.

March 1 cattle and hog inventories remained low by historical standards, but the hogs and pigs inventory increased from a year earlier, the first year-over-year increase reported since December 1983. Together with an expected 8-percent increase in poultry output, the gain was enough to raise the domestic corn feed consumption estimate for 1986/87 to 4.5 billion bushels, up 200 million from a month earlier and a 10-percent increase from 1985/86.

In spite of improved export prospects for corn, grain sorghum, and barley, the domestic supply-demand imbalance for feed grains will continue for the foreseeable future. March 1 corn stocks were a record 8.25 billion bushels, 25 percent above a year earlier. About 61 percent of this corn was stored on farms, most as collateral for CCC loans.

Corn carryout this crop year is expected to total 5.24 billion bushels, 30 percent above 1985/86 and equivalent to 74 percent of annual use. Carryout for grain sorghum also is expected to

Complative	Generite	Centificate	EXChanges	0.5	of	April	8.	1987
	44.101.10		Factor In I do a	U 2	26.1	repair a c	٠,	

Commodity	ccc inventory	Producer 10ans	7ota
Food grains			
Wheat			
Volume (mH1, bu,)	60.0	233.B	293.
Value (\$ m11.)	144.5	563.1	707.
Rice			
Valume (mil. cut.)	26,5	0.03	26.
Value (S mil.)	88.6	0.11	88.
eed grains			
Corn			
Volume (mil. bu.)	90.1	1,848.7	1,938.
Velue (\$ mil.)	145,3	2,981.6	3,126.
Grain Sorghum			
Volume (mil. bu.)	28.5	91.9	120.
Value (\$ mil.)	50.6	163.1	213.
Barley			
Volume (mil. bu.)	30.3	78.7	109.
value (\$ mil.)	38.4	99.6	138.
ye, dats, and soybeans			
Value (5 mil.)	7.7	18.8	26.
10100 (0 1111)	* . *	10.0	
otal value (S mil.)*	475.0	3,826.3	4,301.

"Not included are about 5.14 million bales of cotton exchanged from 9-month loen positions: no corresponding values are aveilable for the cotton. Other program commodities, for which few or no exchanges have been made, include honey, nonfat dry milk, butter, and cheese.

Source: Agricultural Stabilization and Conservation Service. USOA.

rise, up 25 percent to 688 million bushels. But, barley carryout should fall slightly with a large rise in exports, and oat carryout will drop 40 percent because of significantly lower output.

Use of generic certificates during March-May continues to free a substantial amount of corn from Government control, keeping free stocks abundant and cash prices lower than they would be otherwise. In December-February, certificates were exchanged for 751 million bushels of corn. Through April 8, certificates were exchanged for an additional 592 million bushels, virtually all from 9-month loans. In May, corn exchanges are expected to taper off, as placement of 1986 corn under loan subsides.

Significantly lower feed grain plantings this season should alleviate the supply/demand imbalance somewhat in 1987/88. Farmers intend to plant 67.6 million acres of corn this spring, 12 percent below 1986. Corn intentions in the Corn Belt ranged from 86 percent of 1986 plantings in Missouri to 92 percent in Ohio. Grain sorghum and barley plantings also should be down sharply, particularly in the Plains.

# Generic Certificate Issuences

lesuance	Va1ue
5 n	1111on
ACTUAL	
(April-December 1986)	
Deficiency 8 diversion	7 600
payments	3.609
Other	3.847
Total	3.047
AUTHORIZED	
(January-August 1987)	
1986 Final deficiency	
payments for corn	
8 grain sorghum	300
1987 advance deficiency	
P#yment#	2,300
1987 advance diversion	500
Payments	500
1987 Cons. Reserve Program	340
Export Enhance, 5 Targeted	340
Export Assistance	
Programs	500
Oleaster payments	400
Total	4,340
Total, actual & authorized	8, 187

Oat planting intentions, however, are about 7 percent above plantings last season, at 15.7 million acres. Oats enjoy a stronger market than other feed grains, and also are being used as a cover crop on some idled acres.

# Soybean Stocks Remain High; Plantings To Fall Sharply

Record crops of soybeans, peanuts, and rapeseed will mean that 1986/87 world oilseed output is close to the 1985/86 record of 196 million tons. World soybean crush is projected to rise 5 percent, and soybean trade will increase by nearly 2 percent. But U.S. exports will drop 5 percent as larger supplies become available from South America.

With record supplies of oilseeds both here and abroad dampening increases in domestic crush and world trade, the soybean loan rate likely will continue supporting domestic prices. March 1 soybean stocks were 1.38 billion bushels, slightly higher than a year earlier.

In response to the prospect of higher net returns to other crops and the placement of acreage into the Conservation Reserve, U.S. farmers intend to plant only 56.9 million acres of soybeans this spring, 7.5 percent below 1986 and the smallest plantings since 1976.

In the North Central region, intentions by State are 89 to 100 percent of last season's plantings, except in Ohio, South Dakota, and Wisconsin where intentions show plantings rising. Intentions in the Southern States indicate proportionally much greater reductions in plantings.

Peanut supplies for 1986/87 total 4.5 billion pounds: 845 million of carryover, 2 million of imports, and 3.7 billion of production. Peanut exports have risen annually since 1980, but increases have slowed recently. USDA established a \$4.5-million Targeted Export Assistance program to boost peanuts' export potential in Western Europe. However, U.S. peanut exports are facing increased competition from China and Argentina.

The Prospective Plantings report indicates that farmers intend to plant 1.61 million acres of peanuts this spring. This area would be about 2.5 percent above last year and the highest since 1958. Modest increases are expected in all major producing States except Florida and Oklahoma.

# Cotton Plantings To Rise This Spring

The combination of a 5-percent gain in 1986/87 cotton consumption and a 12-percent drop in world production has reversed the cotton price decline that occurred at the beginning of 1986/87. U.S. exports for the year are expected to be 6.7 million bales, 4.7 million above last year.

Carryover will remain large by historical standards, but a reassessment of China's cotton consumption this year and last has caused a sharp downward revision in the forecast of 1986/87 world carryout stocks. The adjusted world price announced by USDA has been above 50 cents per pound for several months, and has remained well above the loan repayment rate (44 cents per pound for base quality) since December 12, 1986.

Primarily because of a stronger market outlook, participation in the 1987 cotton program should fall from last year, and farmers intend to plant 10.35 million acres of cotton this spring, about 3 percent more than last year. [Michael Hanthorn (202) 786-1840 and Frederic Surls (202) 786-1691]

For further information, contact: Sara Schwartz, world food grains; Allen Scheinbein, domestic wheat; Janet Livezey, rice; Peter Riley, world feed grains; David Hull, domestic feed grains; Tom Bickerton, world oilseeds: Roger Hoskin, domestic oilseeds; Carolyn Whitton, world cotton; Bob Skinner, domestic cotton; Jim Schaub, peanuts. World information, (202) 786-1691; domestic, (202) 786-1840.

## HIGH-VALUE CROP OVERVIEW

Florida's orange juice pack could be 14 percent larger than last season because of a bigger crop and higher yields. Spring area for 7 fresh-market vegetables is estimated up 8 percent from 1986. Tobacco growers plan to grow 2 percent more tobacco in 1987, because of larger effective quotas.

#### FCOJ Production Up

Florida's 1986/87 pack of frozen concentrated orange juice (FCOJ) could total 150 million gallons, compared with 132 million last season. USDA's April 1 yield projection was 1.50 gallons per box (42 degree Brix), compared with 1.38 last season. The April 1 orange crop estimate is 123 million boxes, up 3 percent from last year.

Despite more production and larger imports, FCOJ prices this season are higher than in 1986. In March, Florida f.o.b. prices rose from \$4.34 a dozen 6-ounce cans to \$4.46. The price was \$3.84 a year ago.

# California Strawberry Acreage Higher

California's strawberry area for harvest this spring likely totals 16,000 acres, 3 percent above last year and 10 percent more than 1985. Although the early harvest was delayed by cold weather during January and February, the spring crop appears in good condition.

The USDA's March 1 estimate of winter potato production for 1987 indicated a 9-percent drop from 1986, to 126 million cwt. Planted area for spring harvest rose 2 percent to 32,000 acres, but it still was 14 percent below 2 years ago.

Potato growers' prices for the first 2 months of 1987 rose 45 percent over 1986, to \$4.85 per cwt. Smaller stocks and expected strong export demand for fresh potatoes should keep prices above last year throughout the spring.

# Spring Vegetable Area Bigger

The area of 7 fresh-market vegetables in major production States during the spring is forecast at 170,000 acres, up 8 percent from 1986. Increased acreage of broccoli, cauliflower, sweet corn, and lettuce more than offset declines in carrots, celery, and tomatoes.

March 1 contract intentions for 5 major processing vegetables indicate growers expect to plant 1 percent more area than last year, but 8 percent less than 2 years ago. Area planted to snap beans should be up 3 percent, with sweet corn and green peas up 4 percent each. Acreage in processing tomatoes should be down 4 percent, and in cucumbers for pickles down 10 percent.

#### Corn Sweetener Prices Lower

In the Chicago-West market, HFCS-42 prices strengthened slightly and HFCS-55 prices remained steady in 1986, but may weaken in 1987. Starch costs faced by HFCS producers are expected to remain near the lows recorded in fourth-quarter 1986. Market growth for all corn sweeteners has slowed. Consumption grew 2.6 percent in 1986 and is likely to grow only 2 percent in 1987. In addition, rising HFCS imports from Canada are forcing producers to lower prices to maintain or expand market share.

Prospective plantings of sugarbeets in 1987 indicate an increase of 1.3 percent above 1986, to 1.249 million acres. That could raise beet sugar production above 1986/87's estimated 3.33 million tons, raw value, and add downward pressure to the U.S. sugar import quota.

# Tobacco Acreage Up in 1987

Tobacco growers plan to set 2 percent more tobacco in 1987 than in 1986. Their planting intentions partly reflect 7-percent-higher effective marketing quotas this year for both flue-cured and burley tobacco. However, large on-farm holdings of 1986 burley, plus cuts in acreage allotments of Kentucky-Tennessee dark fire-cured (down 40 percent) and dark air-cured (down 35), will curb planting of these types.

With normal yields, this year's production will likely exceed the 1986 crop by about 4 percent. Nevertheless, the total supply will be lower in 1987/88 because beginning stocks will be smaller. Stocks will probably decline again in 1987.

The flue-cured price support is down 0.3 cents per pound in 1987. The burley support is unchanged, while supports for other types are also declining slightly.

USDA set the 1987 basic burley marketing quota at 464 million pounds, 6 percent below last year. The effective quota, which reflects the basic quota adjusted for the previous year's overand under-marketings, totals about 520 million pounds, 32 million above last season.

For further information, contact: Ben Huang, fruit; Shannon Reid Hamm, vegetables; Dave Harvey, sweeteners: Verner Grise, tobacco; (202) 786-1767.



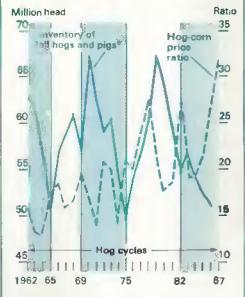
# Commodity Spotlights



# Is Expansion Coming In the Hog Industry?

The March Hogs and Pigs report indicated that producers are expanding their breeding herds and planning to increase production in the coming months. The expansion is in response to record high hog-corn price ratios and high returns to producers over total costs since mid-1986. The question now is, how fast will production increase? The rate is uncertain because of structural changes in the industry.

#### Hog-Corn Price Ratio Indicates Future Expansion



\*As of December 1 of each year, 1987 estimated

Before 1970, hog production rose and fell, according to the relative prices of hogs and corn, in cycles that ran about 4 years. Corn was the largest production expense. When corn prices were low, more corn was fed to hogs. When corn was high, it was sold for cash.

However, from 1969 to 1978, the number of farms with hogs declined 26 percent, and the average number of hogs per farm rose 45 percent. As hog production shifted from pasture to expensive confinement systems, corn prices became less important and capital costs more so.

The transition began in 1975, when corn prices were low and hog prices were nearly \$14 per cwt higher than the year before. Producers began expanding in 1975 and continued until 1979. In 1976, the pig crop was 18 percent above 1975. However, the pig crop rose only 2 percent and 5 percent in 1977 and 1978, respectively. Given the low corn prices, these increases were modest.

The hog-corn ratio rose to 20-to-1 and above during 1977 and 1978, and producers covered total costs. Thus, it appeared that producers were responding very little to the favorable ratio. Actually, a heavy expansion was in the making for 1978 and 1979. The response was not as quick as in former years because of the structural shift.

# Confinement Construction Boom Began in 1975

In past years, expansion could come about simply by each producer's breeding a few more sows. In the late seventies, the cycle took longer because producers built farrowing houses and other confinement facilities to boost production. Nearly two-fifths of farrowing houses available in 1980 were either built or renovated during 1975-80, indicating a flurry of confinement construction.

The 17-percent expansion in 1979 pushed hog prices down sharply late that year, at the same time that corn prices rose. The ensuing liquidation of hog inventories continued in 1980 with a record slaughter, exceeding 96 million head. In addition, a drought in 1980 boosted grain prices further.

Thus, hog prices hit new highs in 1982, just as a record 1982 corn crop dropped corn prices. Hog-corn ratios reached a record high in late summer 1982, giving producers very favorable returns. They responded quickly this time by retaining gilts, and by March-May 1983, the number of sows farrowing rose 15 percent above a year earlier.

But in 1983, PIK and drought reduced grain stocks. Corn prices increased and hog prices fell sharply, partly from herd liquidation. Producers received no strong signals to cease liquidation until mid-1986. On a year-over-year basis, the number of sows farrowing has dropped each year since 1983.

# Will Repairs, Finances Constrain Expansion?

Producers' expansion has so far been constrained by:

- Financial stress. The industry responded quickly in 1982 and early 1983 because it had built up a large capacity and was waiting for the economic signal to go.

  Memories of the good days in the middle and late 1970's were fresh in producers' minds. Since then, low returns and financial stress, especially in the Corn Belt, have weakened many producers' financial positions.
- Condition of facilities. Normally, in periods of tight money, maintenance is postponed and facilities are idled. Farmers may be using their 1985-86 earnings to catch up. So, the response to the high hog-corn ratio may just be delayed. Some people may be considering the purchase or lease of idle facilities for hog production.

There are signs of expansion:

As of March 1, producers in the 10 quarterly reporting States indicated intentions to have 7 percent more sows farrow in March-May than a year earlier. During December-February, they farrowed 5 percent more sows than a year earlier, the first quarter without a decline since June-August 1983. Producers also plan to increase the number of sows farrowing in June-August by 8 percent.

• The number of gilts retained between September 1 and December 1 rose significantly. During this period, producers in the quarterly reporting States added 315,000 head to the breeding inventory. September-November gilt retention as a percentage of the September breeding inventory was the largest since 1978.

Although hog prices are expected to average less in 1987 than in 1986, producers will have relatively good returns if feed costs remain low. In past cycles, returns of the magnitude of the last 6 to 8 months would have triggered a double-digit increase in the pig crop by the March-May quarter. However, producers indicated they are taking a more cautious approach this time.

To bring facilities on line, larger producers need time to plan, raise capital, build, and hire help. Thus, this expansion may be slower but longer than in previous cycles. But once facilities are in place, larger producers with lower production costs will continue to produce near capacity as long as returns exceed cash costs, even if they fall below total costs. This could result in a more modest contraction than usual when the expansion ends. [Leland Southard (202) 786-1830]



# How Exchange Rates Affect U.S. Pork Trade

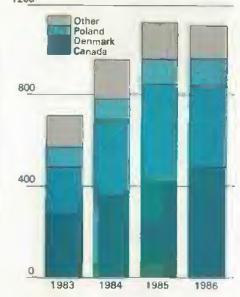
During 1986, U.S. pork production dropped 5 percent while the barrow and gilt price at the 7 markets averaged 14 percent above 1985. This domestic price rise might have led to higher imports, but the decline in the value of the dollar caused U.S. imports of pork to decrease slightly in 1986. The largest drop was in Danish pork shipments, which fell 16 percent.

The average U.S. barrow and gilt price converted to Danish kroner peaked in 1984, about the same time as U.S. imports of Danish pork increased. Then, in early 1985, the dollar began to weaken and the EC cut subsidies on pork exported to the United States.

U.S. imports of Danish pork have dropped ever since. Even the sharp rise in U.S. hog prices in 1986 was largely offset by changes in the dollar/krone exchange rate. Although

# U.S. Bought Less Danish Pork In '86

Million pounds carcass weight

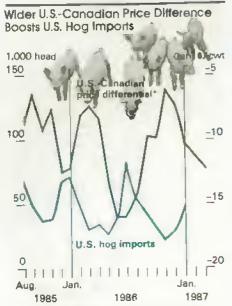


restitutions for pork exports to the United States were increased in July 1986, they are not expected to have a large impact on Danish exports this year.

## Canada Selling Fewer Live Hogs To United States

U.S. imports of pork from Canada have continued to increase, but live hog imports have dropped. In 1984, the Canadian dollar weakened against the U.S. dollar and the exchangerate-weighted differential between Canadian and U.S. hog prices widened, increasing the attractiveness of exporting to the United States. U.S. imports of live hogs from Canada jumped to 1.3 million hogs, up from .4 million in 1983. In August 1985, a countervailing duty was placed on imports of Canadian live hogs, and during 1986 U.S. imports of live hogs reached only 0.5 million head, down from 1.2 million in 1985.

For 1987, U.S. imports of pork and live hogs are forecast to be below last year. Imports of pork from Canada—which do not face countervailing duties—are expected to rise, but imports from Denmark are not. Although the differential between U.S. and Canadian hog prices is currently widening, some strengthening of the



\*A negative difference means U.S. prices are higher.

Canadian dollar is forecast for 1987, and a slowdown in hog imports is expected in late 1987, putting 1987's imports slightly below 1986's.

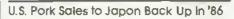
# U.S. Pork Exports Fell in '86

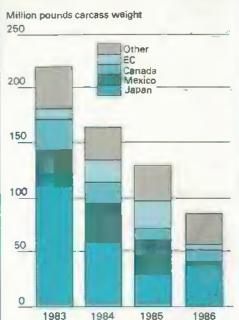
U.S. exports of pork fell in 1986, mainly because of a drop in shipments to Mexico and the EC. Mexico's imports of U.S. pork were hard hit by the country's economic troubles. Pork consumption in Mexico varies considerably as prices change, and the weakening peso, inflation over 100 percent, and higher U.S. hog prices have boosted prices paid in Mexico. Declining consumer purchasing power in 1986 also limited Mexico's pork consumption. Even the low-value pork cuts normally bought by Mexico proved to be too expensive.

Hog inventories in the EC continue to grow, although reduced profitability should dampen pork production expansion this year. Pork and competing meats are plentiful in the EC, and demand for imports has been low.

# Strong Yen Boosted U.S. Pork Sales to Japan

U.S. pork exports to Japan increased 32 percent in 1986, mainly because of the strong yen. Denmark and Taiwan together supplied about 75 percent of Japan's pork imports, and Canada and the United States each supplied about 10 percent. In 1984, the yen strengthened against the Danish





krone but weakened against the dollar, and Japanese imports of Danish pork almost doubled, while imports from the United States and Canada were slashed.

With the fall of the dollar in 1986, U.S. pork exports began to rise to Japan. However, surplus pork supplies persist in Taiwan, and that country will grow as a competitor in the Japanese market.

For 1987, U.S. pork exports are likely to increase over last year. Some moderation in U.S. hog prices is expected at the end of the year, but the big boost to exports could come from relative movements in exchange rates. Exports to Japan are forecast to continue to increase with the further strengthening of the yen. Little or no recovery in exports is likely to Mexico or the EC. [Linda M. Bailey (202) 786-1691]

# Expected Soy-Corn Returns Indicate Soybean Acreage

U.S. soybean plantings have declined since 1979, especially in the Southeast and Delta. Reasons include higher expected returns to cotton production, less double cropping, greater sorghum plantings, and the hot, dry weather in the Southeast during 1985 and 1986, which discouraged a second crop on some doubled-cropped acreage. In the North Central region, increased Government payments to corn producers explain most of the decline.

About two-thirds of U.S. soybean acreage is in the North Central region (Corn Belt, Lake States, Northern Plains, and Kansas), where corn and soybeans are grown primarily as competing crops or in rotation. Consequently, soybean-corn price ratios have been assumed to reflect farmers' expectations for returns at harvest.

For the North Central region, a 10-percent annual change in a ratio of futures prices¹ (caused by a change in the soybean price, a change in the corn price, or both) leads to a 6-percent change in the same direction in soybean plantings. A 10-percent change in the ratio of lagged season average prices² leads to a 4.8-percent change in soybean acreage. During 1974-86, the ratio of futures prices averaged 2.35 (0.26 standard deviation) and the lagged season average price ratio averaged 2.43 (0.37 standard deviation).

The futures price ratio has increased since 1985, and the lagged season average price ratio has increased since 1986, suggesting that soybean plantings should be rising also. However, just the opposite has occurred. National soybean plantings peaked at 71.4 million acres in 1979 and fell to 61.5 million in 1986. USDA's Prospective Plantings report indicated farmers intend to plant only 56.9 million acres in 1987. This would be the smallest soybean area since 1976.

One reason the price ratios are not correctly indicating the direction of change in soybean acreage is that during the 1980's an increasing share of farmers' revenues for corn relative to soybeans has come from Government program payments. Also, corn yields rose an average 3.15 bushels a year during 1969-86, while soybean yields rose only 0.46 bushel per year. Consequently, a ratio of soybean and corn expected net returns more fully reflects farmers' choices when making planting decisions than do early-season price ratios.

Therefore, a ratio of expected net returns was computed for the North Central region and used to estimate

<sup>1</sup> The average May value of the November soybean futures divided by the average May value of the December corn futures. 2 The previous year's season average price for soybeans divided by the previous year's price for corn.

# North Central Soybean Acreage Response Equation Estimates 1/

Item	Net expected returns	Futures prices	Lagged Season average prices
Elasticity estimate	0.28	0.60	0.48
7-statistic	2.64	4.75	5.10
Adjusted R2	0.72	0.86	0.87
D.W. statistic	1.75	2.28	1.97

1/ Analyzed data are for 1974-86.

Expected	Corn	and	Soybean	Returns	1/
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Crop. item	1974	1987
ORN	**********	
. Base acres	100	100
. Set aside rate (%)	0	20
. Olversion rate (%)	0	15
. Planted acres	100	65
. Target price	\$1.38	\$3.03
. Dec. futures price in May 2/	\$2.30	\$1,63
Loan rate	\$1.10	\$1.82
. Per bu, diversion payment		\$2.00
. Program yield (bu.)	97	107
. Trend yield (bu.)	87.5	134.5
. Gross revenue		
1974 (D x F x J)	\$20,125	
1987 ((0 x G x J) + (0 x (E - G) x I)		
+ ((A x (C / 100)) x H x I))		\$27.53
. Per acre variable production costs	\$62.45	\$114.1
. Variable costs (D x L)	\$6.245	\$8.05
. Net revenue (K - M)	\$13.880	\$19.48
OY8EANS		
. Planted acres	100	100
. November futures price in May 2/	\$5,11	\$4.5
Loan rate	\$2,25	\$4.7
. Trend yield (bu.)	30.6	36.6
- Gross revenue		
1974 (0 x P x R)	\$15,637	
1987 (O x Q x R)		\$17.45
PEr @cre variable production costs	\$27.48	\$50.2
. Variable costs (0 x T)	\$2.748	\$5.02
. Net revenue (S - U)	\$12,889	\$12.43
Sybean-corn net revenue ratio (V / N)	0.93	0.64
reak@v@n soybean Price ((K - M + U) / (0 x R))		\$6.69

1/ Returns expected at planting time, on 100 acres in North Central region. 2/ Futures prices are reduced by 10 cents for corn and 30 cents for Soybeans, to account for harvest-time differences between futures and farm prices.

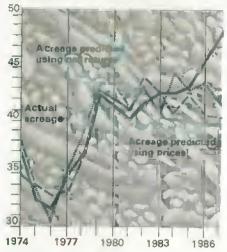
soybean plantings. The ratio of expected net returns for soybeans and corn reflects North Central farmers' expectations at the planting time for current-year returns. Expectations are based on corn program provisions, May average futures prices for soybeans (November contract) and corn (December contract), trend yields, and production costs.<sup>3</sup>

<sup>3</sup> For 1987, March average futures prices were used.

In most years, expected corn revenues include deficiency payments plus revenues expected from either marketing the crop or placing it under loan. In years when diversion programs were implemented, these payments are included as revenue. And, in 1983, PIK payments are included as corn revenues. For 1974-86, soybean revenues include expected revenues from selling the crop, while this year's expected revenues are assumed to come from placing the crop under loan

#### Soybean Acreoge Following Net Returns, Not Prices

Million acres



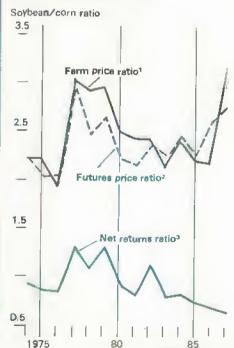
Prediction based on November soybean.

December corn ratios as of May.

Prediction based on soybean Corn price of

<sup>2</sup>Prediction based on soybean-corn ratios of net returns.

# Soybean-Corn Net Returns Ratio Falls, Despite Higher Price Ratios



'Ratio of soybean to corn farm prices, lagged 1 year.

<sup>2</sup>Ratio of November soybean futures to Occember corn futures as of May.

<sup>3</sup>Ratio of soybean gross receipts minus variable costs to corn, in the North Central region,

Since 1974, a 10-percent change in the soybean-corn expected returns ratio has led to a 2.8-percent change in the same direction in North Central soybean plantings. Soybean plantings in 1987, based on the expected net returns ratio, are estimated to be 40.4 million acres, 3.5 percent below the official USDA planting intentions estimate of 41.9 million in the North Central region. Estimates from the futures and lagged season average price ratios, however, are substantially above the official intentions estimate, at 48.7 and 50.4 million acres, respectively.

The estimates for expected net returns for soybeans and corn show that the price at which North Central farmers would be indifferent between planting soybeans or corn has been well above the May average November futures price since 1980, except for 1982. In 1980, expected soybean prices were about 50 cents a bushel below the price needed to be equally inclined to plant corn or soybeans. For 1987, bean prices may be about \$1.90 below that price, as Government benefits for corn producers become even more important with the 15-percent paid diversion. [Michael Hanthorn and Larry Van Meir (202) 786-1840]

# Electronic Markets Enhance Efficiency

Agricultural products are usually marketed in face-to-face exchanges between buyers and sellers. But, sales can also be made using computers, teletype, conference calls, and videos. An electronic market is a comprehensive system which uses one of these technologies and is accessible to all market participants. By eliminating the need for expensive face-to-face meetings, electronic marketing allows more traders and less traditional supply sources to participate, improving competition.

The first electronic marketing system was developed about 25 years ago to sell slaughter hogs in Virginia. Two other systems were developed between the middle 1960's and the 1970's. One worked through a Missouri livestock cooperative to sell feeder pigs via conference telephone systems. The other was a computerized network, TEL-COT, run by the Plains Cotton Cooperative Association of Texas to auction cotton. TELCOT remains active today.

# USDA Is Funding Projects

In 1978, USDA began partially funding electronic marketing projects to assess their feasibility. Three agencies within USDA have been involved. The Agricultural Marketing Service (AMS) sponsors pilot research projects, the Cooperative Extension Service provides educational programs, and the Packers and Stockyards Administration monitors the electronic marketing of livestock.

Since 1978, USDA has partially funded 14 electronic marketing projects through the Federal-State Marketing Improvement programs. These projects developed computer-based systems either for buying and selling products or for providing information.

Of the 14 initial projects, 11 systems were developed. But, only four of these 11 (NEMA, ECI, Florida, and New Jersey) developed into viable electronic markets.

One of the four was developed as an electronic market for gradable eggs. The Egg Clearinghouse, Incorporated (ECI) supplanted an earlier pricing system established through a series of telephone calls. For a time, ECI's egg prices were a major factor in the formulation of widely used egg-price quotations. However, since the volume of eggs traded through ECI represented only about half of 1 percent of all eggs sold in the United States, the market suffered from a lack of credibility. ECI still trades eggs, but it is no longer used for price setting.

# CAMP Increased Produce Trading

Three of the total 14 systems (Florida, New Jersey, and Virginia) were developed specifically for fruit and vegetable markets. The most successful of these systems was taken over by a private company and operates under the name of Computer Aided Marketing Programs, Inc. (CAMP).

Using CAMP, produce buyers and sellers can match each other's offers and needs faster. CAMP can also be used to search for a particular produce item or produce trader, and it offers marketing management and auxiliary information services. CAMP's primary

benefit is increasing the number of produce traders and the amount of produce being traded.

Most face-to-face agricultural markets perform well, but technology could help some markets function more efficiently. Inefficient markets are characterized by obsolete technology; high handling, transporting, and procuring costs; and erratic pricing. Electronic markets can decrease costs and improve prices.

For example, the electronic system for marketing slaughter lambs, run by the National Electronic Marketing Association (NEMA), reduced marketing costs and improved competition. Buyers and sellers of lambs are geographically dispersed, with some buyers located as far away as Canada. The electronic arena not only lowers costs, but also increases the number of buyers and sellers in the markets.

USDA has developed certain guidelines for establishing electronic markets. While by no means the only assured method of setting up an electronic market, these guidelines have proven to be fairly consistent for establishing successful systems. The guidelines are as follows:

- When an agricultural market is identified as inefficient and less competitive than it could be, participants should be surveyed for their attitudes about the existing market and the desirability of an electronic market. Agricultural products that are already traded using descriptive grades are easier to computerize.
- The computerized market should be modeled as closely as possible after the existing market, and the computer programs should be user-friendly. This helps keep overhead low and more easily incorporates existing participants in the development phase.
- To improve the acceptability of the new system, participants should be involved in a training or test phase.
- An organization should be established to manage the electronic market and guarantee performance and financial credibility.
   The organization should trouble shoot for users, working out programing difficulties and other problems.

# Electronic Marketing Systems Supported by USDA

System	Commodity	Description of project	Results & status
HAMS	Hogs	Experimental demonstration of sales using a computer network	Developed system for hogs, showed need for larger volume to be successful.
CATS	Wholesale meat products	Electronic markating system for trading using computers	Showed system could trade wholesals meat products: showed need for larger volume to be successful.
CATTLEX	Feeder cattle	Electronic marketing system for trading using computers	Developed system for feeder cattle: Showed need for larger volume to be successful
NEMA	Slaughter lambs, feeder cettle	Electronic marketing System for trading using computers	System working & expanded to several regions.
ECI	Eggs	Convert manual trading to computerized system	Converted from a manual system to an electronic system, but no increase in volume traded.
MULTI- COMMODITY	Corn, soybeans, peanuts, hogs, pecans, cattle	Feasibility study for computerized trading system	Examined attitudes toward electronic marketing and develope cost analysis.
TENNESSEE	Hogs	Incorporate computers for trading	Traders Chose to use direct sales rather than electronic marketing.
DKLAHOMA	Gratns	Feasibility study for computerized trading system	Oklahoma State University & Virginia Tech are working on the development & structure of a grain electronic market.
VIRGINIA	Grains and fruit/ vegetables	Feasibility study for grain computerized trading system; a computerized market information system for fruit & vegetables	Developed softwarm to help cooperatives better market fruit & vegetables.
FLDRIDA (CAMP)	Fruit å vegetables	Feasibility study for computerized trading mystem	Evaluated the impact of the produce marketing system (CAMP) on efficiency of marketing & determined level of user satisfaction; then assessed the impact of CAMP on operation and pricing efficiency. Currently operating as CAMP.
ILLINGIS	wholmsale meat	Assessment study of computer- assisted trading Bystem	Evaluated System and Compared it with Other existing systems. Assessment limited to wholesale level.
NEW JERSEY	Peaches	Computer pricing program	Developed pricing system through university & is currently operating.
TEXAS	Agricultural Products 8 livestock	Electronic trading system using video	Developed video cassettes through university to help promote exports.
INDIANA	Agricultural products	Computer system to benefit direct markets of agricultural products	Farm stand operations & other direct marketers were able to exchange information and supplement supplies.

Table updated and modified from U.S. General Accounting Office Report, March 1984.

SOURCE: Economic Research Service, USDA.

# ELF Promotes Foreign Sales Of U.S. Breeding Livestock

Electronic trading is expanding into new areas. For example, USDA gave a grant to Oklahoma State University in 1986 to develop an Electronic Livestock Foreign (ELF) Marketing System for U.S. purebred livestock and related genetic material. This project promotes the export of U.S. breeding livestock.

The value of the electronic systems is evident in many nonagricultural arena, such as financial and homebuying markets. With all markets becoming more competitive, mergers between agricultural and nonagricultural trading systems are feasible, since diversification has proven to reduce risks. Already diversification within the agricultural industry is taking place. The cotton electronic trading system, TELCOT, is currently negotiating to incorporate a new electronic market for grain called the Grain Electronic Marketing (GEM) System.

With the current financial pressures facing agriculture, both domestically and internationally, electronic marketing systems can offer lower trading or marketing costs, higher market prices, and larger market access. [Shannon Hamm (202) 786-1767]

# **Upcoming Economic Reports**

Summary	
Released	Title

# May

6	Livestock & Poultry
7	Western Europe
11	World Ag. Supply &
	Demand
12	USSR

18 Wheat

19 Agricultural Outlook

20 Exports 28 Eastern

Eastern Europe

#### June

4	Southeast Asia
9	World Ag. Supply &
	Demand
10	Western Hemisphere
11	Sugar & Sweetener
	Yearbook

16 Agricultural Resources 17 Agricultural Outlook

18 Tobacco

19 Foreign Ag. Trade of the U.S.

22 World Agriculture

25 China

# Upcoming Releases from the Agricultural Statistics Board

The following list gives the release dates of the major Agricultural Statistics Board reports that will be issued by the time June Agricultural Outlook comes off press.

#### May

-28

29

1	Poultry Slaughter
	Egg Products
-5	Dairy Products
	Dairy Products Annual
6	Celery
- 8	Vegetables
11	Crop Production
12	Turkey Hatchery
	Milk-Prod., Disp.,
	& Income
14	Milk Production
15	Cattle on Feed; Farm
	Labor; Potato Stocks
18	Sugar Market Statistics
19	Catfish
21	Eggs. Chickens, & Turkeys
22	Cold Storage
	Livestock Slaughter

Peanut Stocks
& Processing
Agricultural Prices



# Farm Finance

# PRODUCTION COST OUTLOOK

Production costs per planted acre for the major crops are forecast to drop 1 to 3 percent in 1987. (Peanuts are an exception, with costs forecast to increase about 5 percent, mainly because of higher seed costs.) Total operating expenses—for both crops and livestock—are forecast down 3 to 6 percent, depending on the region.

Variable expenses are showing the largest declines. Reduced fertilizer and agricultural chemical prices are leading the way, in part because of lower 1986 energy costs. Overall, eight of the ten crop categories making up USDA's prices paid index are forecast down for 1987.

Total fixed expenses will likely fall as interest rates level off and older loans are repaid. Also, with variable expenses lower, new operating loans will be for smaller amounts than last year, generating lower interest costs. Property taxes, insurance, and general business expenses may be higher than in 1986, though.

With fertilizer and chemical costs decreasing, the greatest benefits will go to corn farmers, who are major fertilizer users, and farmers in the South,

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(+1.0)

(-.4)

(-.9)

(-1,1)

where Chemical use is high. An estimated 13 percent of total operating expense in the Corn Belt and the Delta is for fertilizers and chemicals.

(% change from 1986)

(% change from 1986)

Total cash expenses

Capital replacement

(-.9)

(-1.6)

37

(-,3)

(-1.5)

29

These ERS price index and production cost forecasts are subject to revision. The estimates are based on national data; individual farmers' costs may be different. Also, costs per bushel, per cwt, or per pound depend on final yields. [Bob McElroy (202) 786-1801]

Prices Paid Index: Ch Previous Year	enges fi	rOm
	1986	1987F
	Perc	ent
Production items		
Seed	-3.3	-2.2
Fant 11 Izen	-8.1	-2.0
Ag. chemicals	9	-2.7
Fuels & energy	-19.5	9
Farm & motor		
Supplies	-1.6	-1.6
Auto & trucks	2,4	1,8
Tractors & SP		
maChinery	-2.2	-1.4
Other machinery	. 6	-1.5
Building & fencing	+.3	. 2
Farm services & rent	, 5	-1,,5
All production items	-3.3	-2.1
All items inc. wages & taxes	-3.8	-1.8
F = forecast,	**	

# RECENT PUBLICATIONS

(-1, 1)

104

26

(-1.6)

377

(+4.6)

(-1.3)

286

(-.7)

49

(-1,1)

316

(-,7)

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Alternative Ways to Index Farm Real Estate Values. TB-1724. (Price \$1.00) Stock Number 001-019-00498-3.

<sup>\*</sup>Forecast costa are as of 03/01/87, rounded to the nearest dollar. Totals may not add because of rounding. -- = less than 50 cents.



World Agriculture and Trade

# WORLD WHEAT CUSTOMERS: WHO WILL THEY BE?

Wheat and rice are the major food grains of the world and comprise about 10 percent of today's international agricultural trade. The percentage of world wheat production that is traded on the international market is much higher than that of rice. The U.S. share of global wheat exports in 1986 was approximately 30 percent.

People in virtually every country in the world consume substantial amounts of wheat, and a few developed countries also use wheat for animal feed. The recent development of high-yielding but lower protein wheat varieties, which are price-competitive with coarse grains, has increased use of wheat as feed in several countries in the last few years.

Total world wheat utilization, including food, feed, and industrial uses, has risen from 235 million metric tons in 1960 to an estimated 617 million this year. The average gain per year has been about 11 million metric tons. If that rate prevails until 2000, world wheat utilization will rise to about 660 million metric tons. Much of this increase is occurring in low-income countries where adequate diets have not yet been reached, and where grains, rather than meat, are the principal food.

Country	Group	Class1	fication
---------	-------	--------	----------

Staple food	ádequate diet	Inadequate diet
Meat &	Group 1	
Wheat & rice	Group 2	Group 3
Other	Group 4	Group 5

Average Per Capita Income, Whéat Consumption, and Wheat Production in Five Country Groups

Country group	GDP. 197 <b>9</b> -81	Consump- tion. 1978-80	Prod- uction. 1982-84	Growth Consumption, 1966-80	rates Prod- uction. 1961-82
	\$ 1/	Kilogra	ms/year	Pero	ent 2/
Group 1	6,829	118.6	334.6	-0.1	2.7
Group 2	3,239	129.1	92.6	1.2	-0.9
Group 3	761	48.2	40.0	3.1	3.2
Group 4	2,459	54.0	56-0	0.6	4.3
Group 5	893	19.2	3.9	4.8	1.4

1/ Purchasing power parity standardizes measures of income for comparison across countries. 2/ Annual compound rates.

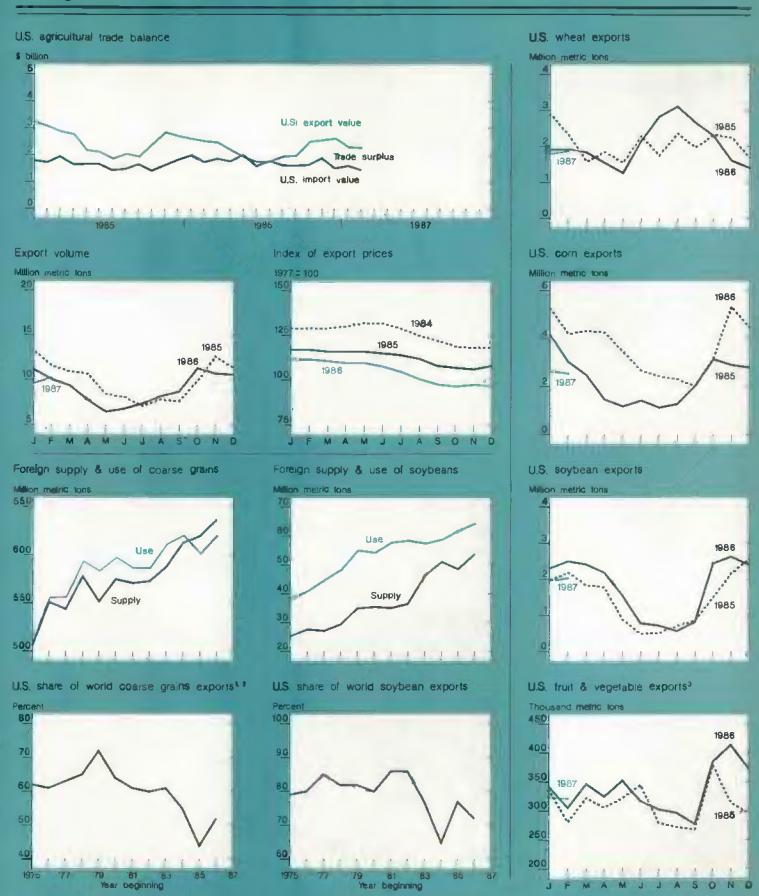
Wheat is primarily used as a food grain. World wheat food consumption represents about 70 percent of total utilization, down from over three-fourths in the early 1960's. Prospects for growth in world wheat food consumption, especially in less developed countries, may hold the key to future U.S. wheat exports. Wheat food consumption rose to 326 million tons in 1982, the latest year for which data are available. The average increase in food use since 1961 has been about 7 million metric tons per year.

In discussing future world wheat food consumption, it is useful to distinguish among five groups of countries (see accompanying map). The groups are based upon average calorie intake and whether the major food consumed is meat, wheat/rice, or other food commodities such as coarse grains, roots, tubers, and plantains.

# Wheat Consumption Declining in Group I Countries

Countries with meat and meat products as their staple food and adequate calorie intake are basically the industrialized countries of North America, Northern Europe, and Oceania, plus Argentina. These Group 1 countries consumed an average of 119 kilograms of wheat per capita annually during 1978-1980.

However, per capita wheat consumption within Group 1 declined by 0.1 percent annually from 1966 to 1980, while consumption of meat rose. Eight countries (Argentina, Belgium-Luxembourg, Denmark, Finland, Ireland, the Netherlands, New Zealand, and Switzerland) decreased their per capita wheat consumption annually from 1966 to 1980, Only two countries (Australia and New Zealand) decreased their annual meat consumption over the period.



1/ Excluding intra-EC trade 2/ October-September years. 3/ Includes fruit juices.
Note Wheat, corn, Soybean, and cotton-exchange rates and export unit values are now included in the U.S. Agricultural Trade tables at the back of this issue.

# Country Groups According to Caloric Intake Per Capito and Staple Food

IV n. Costa Rica Benin. Argentina Korea, Rep. Bangladesh Madagascar Algeria Brunes Chile Libya Bolivia Nenal Mexico Australia Rurundi Colombia Malaysia Brazil **Pakistan** Paraguay Austria South Africa Cameroon Mauritius Burma Panama Belgium-Luxemboury Egypt Chad Greece Morocco Dominican Rep Peru Canada Ecuador Hong Kong Gambia **Philippines** Norway Denmark Sierra Leone El Salvador Iceland Portugal Guyana Finland Ethiopia Saudi Arabia ndia Sri Lanka Iran France Ghana Singapore ndonesia Thailand Germany, Fed. Rep. Guatemala Spain iberra Uroquay Israel Ireland Guinea Netherlands Italy Hani Ivory Coast New Zealand Teroidad Honduras Jamaica Tunisia Sweden Kenya Japan Turkey Switzerland Material Yugoslavia Jordan Mali



No data available on unshaded countries.

In contrast to their declining wheat consumption, these countries raised per capita wheat production 2.7 percent annually from 1961 to 1982. Wheat production grew faster (or declined less rapidly) than wheat consumption in every country within the group. Production of meat and meat products also climbed faster than consumption – 1.8 percent versus 1.3 percent annually.

# Consumption Gaining in Group 2 Countries

Group 2 countries are those with adequate calorie intake and wheat or rice as the staple food. These nations consumed only slightly more wheat than Group 1—129 kilograms per capita per year from 1978 to 1980—but per

capita consumption from 1966 to 1980 grew at a rate of 1.2 percent annually for wheat and 3.3 percent for meat. Both these average values are considerably larger than for Group 1.

Despite increasing consumption, per capita wheat production for Group 2 countries declined by 0.9 percent annually from 1961 to 1982. Indeed, on a per capita basis, wheat consumption increased faster (or declined less) than production in all but six of these countries—Yugoslavia, Turkey, Spain, Saudi Arabia, Norway, and Greece.

Group 2 can be subdivided into three strata by rate of growth in per capita wheat consumption: greater than 1 percent, 0 to 1 percent, and negative.

The Group 2 countries with wheat consumption growth rates greater than 1 had the lowest average gross domestic product per capita from 1979 to 1981 and the lowest per capita meat consumption of the three subgroups.

Mauritania

Nicaragua

Niger

Nigeria

Rwanda

Senegal

Somalia

Tanzania

Uganda

Venezuela

Yemen Arab Rep.

Sudan

Togo

Zarre **Zambi**a

Mozambique

Papua New Guinea

In the subgroup of countries with wheat consumption growth rates between 0 and 1, GDP and meat consumption growth rates were also intermediate between the other two subgroups. Finally, the subgroup with decreasing wheat consumption had the

Algeria, Egypt, Iran, Iraq, Ivory Coast, Libya, Malaysia, Mauritius, Morocco, Portugal, Saudi Arabia, South Korea, Tunisia

highest average GDP, and consumed the most meat and the least wheat per capita.

These results illustrate that there is a shift from wheat to meat and meat products as incomes rise. Thus, within Group 2, the wheat market appears to have potential for expansion mainly in the lowest income subgroup. The market is approaching stability in the intermediate income subgroup and declining in the highest income subgroup. The per capita production of wheat is declining in each subgroup.

# Low-Income Group 3 Countries Represent Wheat Growth Market

Group 3 countries include many third world countries with inadequate diets and wheat or rice as a staple food. The average per capita GDP of Group 3 countries was about one-fourth that of Group 2 countries in 1979-1981. Meanwhile, the average per capita wheat consumption level was slightly more than one-third that in Group 2, at 48 kilograms per capita annually.

However, the average growth rate for wheat consumption in Group 3 countries was 3.1 percent annually, compared with -0.1 for Group 1 and 1.2 for Group 2.

Per capita wheat production for those Group 3 countries that produce wheat grew at 3.2 percent annually from 1961 to 1982. Within these countries, approximately half had higher per capita consumption growth than production growth. Thus, Group 3 countries hold considerable potential for increased market demand for wheat and rice. Both the physiological caloric demand and the increase allowed by economic development are not yet fulfilled.

The extent to which wheat may substitute for rice in these countries is unclear, since rice is itself a preferred food grain. For this reason, wheat consumption in rice-eating countries is unlikely to reach the levels noted in the wheat-eating Group 2 countries. However, urban populations seem to prefer wheat (in the form of bread) over rice, and since urbanization is proceeding very rapidly in most developing countries, wheat consumption is likely to continue gaining.

# Where Corn Is Staple, Wheat Consumption Is Low

On average, people in Mexico, Costa Rica, Paraguay, and South Africa have adequate diets and eat corn as their staple food, constituting Group 4. Average wheat consumption per capita during 1978-80 was 54 kilograms per year in these corn-eating countries. Growth in per capita wheat consumption has been only 0.6 percent per year, and it will likely continue sluggish.

Although theoretically there is potential for a considerable increase in per capita wheat consumption in Group 4, this would require a shift from corn to wheat. The data do not indicate that this shift is occurring rapidly.

# Group 5 Consumes Least Wheat Per Capita

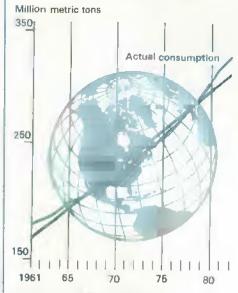
Countries in Group 5 have inadequate diets and use roots, tubers, coarse grains, or plantains as their staple food. Of all groups, Group 5 countries consumed the least wheat per capita during 1978-80, although consumption in these countries grew 4.8 percent annually from 1966 to 1980, considerably faster than in any other group. Since wheat consumption averaged only 15.8 kilograms per person per year in 1978-80, high per capita growth can be sustained for many years before physiological needs and economic wants are met.

Moreover, in these countries, per capita wheat production increased only 1.4 percent annually, much slower than consumption. Only seven countries in this group increased per capita wheat production faster than consumption: Chad, Malawi, Sudan, Tanzania, Uganda, Zaire, and Zambia.

# Food Aid May Boost Consumption

U.S. food aid under P.L. 480 boosts wheat consumption in recipient countries. Many P.L. 480 recipients fall within Groups 3 and 5, which had the highest growth in per capita wheat consumption from 1966 to 1980. Food aid received from all donors accounted for 2.6 percent of the total cerealequivalent consumption of grains, roots, and tubers in 69 recipient countries studied. Since the United States contributes approximately half of the total assessed grain needs of these countries, P.L. 480 shipments supported 1.3 percent of the total cerealequivalent consumption.

# World Wheat Consumption for Food Exceeds Trend In Eighties



\*Trend consumption = 163 26 + 6.72 (1961 = 1); R2 = .97.

Per capita food production, measured in calories, has been declining in 38 of the 69 food aid recipient countries. In those 38 countries, P.L. 480 is very likely responsible for the gains in per capita wheat consumption.

For those countries where both domestic per capita food production and wheat consumption have been increasing, the role of P.L. 480 is not as clear. Food aid shipments could be targeted to a specific group and never move through the marketplace. In this instance, the increase in consumption by the targeted group is probably entirely supported by food aid.

In countries where domestic food production and imports (both commercial and concessional) have been rising, it is again much less obvious whether P.L. 480 is directly responsible for observed increases in per capita wheat consumption.

# Economic Growth Is Key to Export Growth

Per capita consumption of wheat from 1978 to 1980 was highest in Groups 1 and 2, but their consumption growth, in per capita percent increases compounded annually, is very slow. Therefore, opportunities for expansion of per capita wheat demand in the well-fed countries appears limited. Indeed, in Group 2 the evidence suggests

that per capita wheat consumption will decline as meat is substituted for wheat, as is already occurring in Group 1. Group 4, with four corneating countries, also does not seem to be expanding per capita wheat consumption substantially.

Groups 3 and 5, both with inadequate average dlets, had high growth in per capita wheat consumption during 1966-1980 and high population growth rates (2.3 and 2.9 percent, respectively), suggesting potential for very rapid growth in wheat demand.

With a total population of 1.7 billion in Groups 3 and 5, per capita consumption and population growth together could boost wheat demand over 10 million tons annually. Further, growth in per capita wheat production in these countries lags behind the growth in population. Production gains are less than consumption growth in Group 5 and approximately equal to consumption growth in Group 3.

Without doubt, there exists a huge potential market in Groups 3 and 5. But that potential cannot be translated into commercial demand for wheat unless these countries' economies grow. For those Group 3 and 5 countries generating additional income, a very large share—approximately 80 percent—will be spent on food. The food grains, especially wheat, will capture the bulk of the increased food expenditures.

But not all countries in Groups 3 and 5 have experienced economic growth. In fact, several countries' economies have contracted since the oil crises of the 1970's. Also, these low- and nogrowth countries typically have substantial international debt. The lack of economic growth and high debt means most of these countries must rely on concessional food aid to improve their per capita consumption. [Suzanne M. Marks and Mervin J. Yetley (202) 786-1705]



Food and Marketing

#### THE NEW CPI

The Consumer Price index (CPI) has a new look for 1987. The change results from 5 years of research to update the fixed market basket of goods and services on which the CPI is based. In addition, the Bureau of Labor Statistics (BLS) has improved procedures for gathering and processing monthly price data. BLS updates and revises the CPI periodically so that it represents as accurately as possible the changes in types of goods and services that consumers purchase.

The most significant change in the new CPI is that food has fallen from constituting 19 percent of total consumer expenditures to making up only 16 percent. Within the CPI for food only, food-away-from home is now given more weight—going from 33.3 percent of the total to 38.6. Accordingly, food at home has decreased to 61.4 percent, from 66.7.

These shifts—in both the full CPI and the food CPI—come from real growth in disposable personal income since the last CPI revision. With increased income, consumers' budget constraints are eased, allowing expenditures for a wider range of goods and services. Food expenditures increase as incomes rise, but gains are strongest for foods offering more convenience and service—prepared foods and food away from home.

Other changes in the food components of the CPI have been minimal. The major food categories have not changed. However, 33 of the 74 subcategories have been collapsed into 15 slightly broader categories. For example, under the pork component, canned and noncanned ham have been combined into one category. Some of the more detailed indexes may still be available, but they are statistically less reliable. The BLS average price program will still be published, in some cases in less detail.

Shifts in population can influence the mix of goods and services consumers purchase. To capture population

Delative	Importance	of	Major	CPI	Food	Categories	
K	Turbot corres	UT	INTO J THE	- T			

CPI categories	Revised weight	Old weight
	Perc	ent
Food away from home	38.6	33.2
Food at home	61.4	66.8
Cereal & bakery	13.6	13.6
Red meats	20.9	23.7
Beef & veal	10.2	12.2
Pork	6.6	7.5
Poultry	4.9	3.4
Eggs	1.9	1,5
Dairy	12.7	12.5
Fruit/vegetables	16.6	15.3
Fresh fruit	5.2	4.2
Fresh vegetables	5.0	4.3
Processed fruit/veg.	6.4	6.8
Sugar & Sweets	3.6	3.8
Fats & 0118	2.6	2.7
Nonalconolic beverages	9.8	10.9
Other prepared foods	10.4	9.0
Frozen prepared foods	1.9	1.4
Food as percent of all items	16.246	19.008



Index based on markel basket of farm loods. °CPI unadjusted Andex of changes in labor, packaging, transportation, energy, and other marketing costs In food retailing, wholesaling, and processing, "Component of food marketing cost index.

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changes, BLS used the 1980 Census of Population to modify the geographic areas where price information is gathered. The South now has eight more price-information areas, and the North Central region one more. The Northeast declined by three, and the West is unchanged. [Ralph Parlett (202) 786-1870]

#### CONSUMER SPENDING; THE MARKETING BILL

Consumer spending for domestically produced farm foods is expected to gain nearly 4.5 percent in 1987, rising to about \$377 billion. The increase is nearly the same as the 4.6-percent average annual rise between 1982 and 1986.

Retail food prices are forecast to increase 2 to 3 percent, accounting for much of the rise in spending. The price of food away from home will go up slightly more—3 to 4 percent. Total spending will also climb because of a projected 1-percent expansion in the civilian population. Per capita consumption of food will increase little.

# Farm Value To Gain Less Than 1 Percent

The farm value of 1987 food spending—that portion of food expenditures returned to the farmer—is expected to increase less than 1 percent, to about \$89.6 billion, mainly from higher cattle prices. Beef prices will be strengthened not only by a production cut, but also by the expected 2.7-percent increase in real per capita disposable income.

Little change is likely in the farm value of poultry and eggs, since a 6-percent hike in production will probably be offset by lower producer prices. Grain supplies will remain large, and production declines likely will not be sufficient to boost the farm value. The farm value of fruit and vegetables may rise, reflecting a fruit production gain which will more than offset any price drop. A small increase in the farm value of dairy products may occur because of a further gain in commercial milk use.

# Marketing Bill To Maintain Upward Trend

The marketing bill—the cost of processing, handling, and distributing domestically produced food—will rise about 5.7 percent in 1987, to \$287.7 billion. The bill will take about 76

				_	
Components	of	Consumer	Food	Spending	

	1976	1984	1985	1986
		s bil	1106	
Consumer expenditures	183.3	332.0	345.4	361.1
Farm value	58.3	91.4	88.3	89.0
[otal marketing bill	125.0	240.6	257.1	272.1
Labor 1/	53.8	109.3	116.5	123.7
Packaging materials Transportation	14.5	26.3	27.6	28.8
(rail, truck) 2/	9.1	15.9	16.5	16.8
Energy	5.0	12.7	13.1	13.6
Corporate profits				
before taxes	7.6	15.9	17.0	17.8
Other 3/	35.0	60.5	66.4	71.4

i/ Includes pensions and health insurance premiums. Also includes imputed earnings of proprietors, partners, and family workers not receiving stated remuneration. 2/ Excludes local hauling Charges 3/ Business taxes, depreciation, rent, advertising, interest, and other costs.

percent of consumer expenditures, an increase of 1 percent over 1986. This gain maintains the trend of the last decade and reflects the large cumulative rise in marketing costs relative to farm value.

The marketing bill's rise is in line with the 5.9-percent average annual increase of the last 5 years. Trends in the cost of labor, packaging, transportation, and other marketing inputs are continuing.

In 1986 the marketing bill grew 5.8 percent to \$272.1 billion, a smaller increase than 1985's 6.9 percent. The 1986 gain resulted from the following developments in the marketing bill cost components.

# Labor Costs Grew By 6 Percent Last Year

Labor costs are 45 percent of the marketing bill. They increased 6.2 percent in 1986, slightly more than the marketing bill's climb and about the same gain as the 1981-85 average. Following is a rundown of major labor cost developments in each of the four food industry sectors:

Food manufacturing.—Manufacturing posted a 2-percent increase last year in the number of workers. This represented the first rise since 1979, and the largest increase of the last 10 years. Poultry dressing plants were the primary source of the gain, as demand for processed poultry products (such as deboned chicken) soared, particularly in the away-from-home market.

Food wholesaling.—Employment in wholesaling establishments rose 4 percent, reflecting stronger demand for wholesaling services. Wholesale sales grew 7.5 percent from 1985 to 1986, as contrasted with a 3.9-percent gain from 1984 to 1985.

Food retailers.—Retailers experienced the largest employment increase of the four sectors, a 6-percent jump over 1985. Rising employment resulted from the growth of specialty departments (such as in-store bakeries, salad bars, and delicatessens) and expanded hours. Moreover, moderate economic growth spurred consumer demand for retail marketing services. Employment in this sector has trended up in the last few years. Hiring of part-time employees has also increased.

Store closings and multitiered wage contracts have continued to exert downward pressure on retailers' labor costs, especially salaries and benefits for new and part-time employees. In particular, chain stores which closed have reopened under different ownership with tower paid nonunion employees. However, store closings and demands for wage concessions diminished during 1986.

Some recent contracts call for wage freezes and lump-sum bonuses to food retailing workers, instead of increases in hourly wages. In some cases, bonuses are based on projected profits.

Also, workers' cost-of-living adjustments have been lowered, both by agreement and because of lower inflation.

Eating and drinking places.— Employment in eating and drinking places grew 4 percent last year. This increase resulted from strong consumer demand augmented by rising personal incomes and two-income family lifestyles, which have reduced the amount of time available to prepare food at home.

# Cost of Packaging Materials Climbed Less Than Usual

The cost of packaging materials rose 4.3 percent last year and comprised 8 percent of the marketing bill. The increase is attributable both to the larger volume of food marketed and to higher prices for some packaging materials.

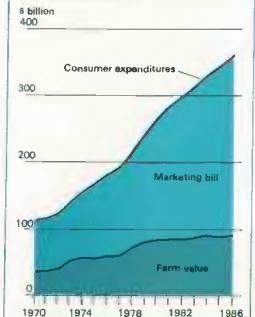
However, the cost increase was slightly less than the 4.9-percent average of the last 5 years because of the drastic drop in energy costs. Prices for petroleum, a major input for several materials including plastic resins, decreased 40 percent in 1986.

A number of developments are affecting the composition of food packaging materials. Glass containers are facing a strong challenge from aluminum cans, and large glass containers have been almost totally replaced by the 2-liter plastic bottle. In addition, a number of food items such as ketchup are now being shipped in plastic bottles instead of glass. Unit shipments of plastic bottles increased 8.3 percent in 1986.

Food can shipments last year dropped 1.1 percent from 1985. This decrease maintained a 10-year trend; unit shipments of cans have fallen 8 percent in a decade.

Grocery bags are still primarily paper, but plastics now account for about 25 percent of the market, and they are expected to increase steadily over the next few years.

Cost of Marketing Food is Growing. But Farm Value is Flat



# Electric Rates Cause Energy Cost Hike

Energy costs posted a modest 3.8-percent increase in 1986, well below the 6.2-percent annual average gain from 1981 to 1985. Most of last year's increase was from a 1-percent rise in electric rates. Greater retail and food service sales, up 3.2 and 7.0 percent, respectively, translated into higher energy costs for these types of establishments, which make extensive use of electricity for lighting, heating, and refrigeration.

The oil price drop was primarily responsible for holding down the rise in energy costs, which continue to occupy 5 percent of the marketing bill.

# Transportation Costs Rose Little

Transportation costs rose only 1.8 percent in 1986, to \$16.8 billion. This gain is considerably less than the annual average increase of 3.7 percent in the last half-decade. Transportation continues to take up 6 percent of the marketing bill. Like energy and packaging, transportation saw only a small increase because of the drop in fuel prices, which offset bigger labor and equipment costs.

Higher transportation costs were primarily caused by the greater demand for marketing services. For example, although the cost of operating produce trucks decreased about 3 percent, produce shipments increased 2.2 percent. Additionally, the rail freight index increased about 1 percent.

# Profits Climbed Almost 5 Percent

Pretax profits rose 4.7 percent, to \$17.8 billion, but declined slightly as a share of the marketing bill to 6.5 percent. The increase was much lower than the 9.1-percent average annual gain of the previous 5-year period. Increased profits are primarily attributable to bigger sales volume, particularly in the away-from-home market. Consumers continue to respond to the stable economy by purchasing more processed food and eating out more frequently.

Generally, changes in farm prices are not immediately reflected in prices at other marketing levels. Profits as a percent of the total food bill declined slightly from 1985.

# Miscellaneous Costs Up 7 Percent

A variety of miscellaneous costs, including advertising, rent, depreciation, and bad debts, accounted for the remainder of the marketing bill. These costs increased faster than the average annual increase of 5.6 percent from 1981 to 1985. Last year, they rose 7.4 percent to \$71.4 billion. Miscellaneous costs made up 26 percent of the marketing bill, about the same as in 1985.

A number of miscellaneous costs have strengthened the impact of this component on the marketing bill in recent years. For example, rent increases have boosted restaurant operating costs as land values have soared. Similarly, property taxes and insurance have gained because of increased real estate values. Finally, advertising and promotion costs have gone up, as retailers and food manufacturers have sought to attract business through promotional programs. [Howard Elitzak (202) 786-1870]



Immigration Reform and U.S. Farm Labor

The Immigration Reform and Control Act of 1986 (IRCA), passed last November, seeks to prevent illegal aliens from working on U.S. farms. However, the law will grant legal status to many aliens and also help farmers hire foreign seasonal workers legally.

The statutory language of IRCA establishes the framework for new programs, but regulations issued by the Departments of Agriculture, Labor, and Justice will determine specific details. The new regulations will be issued by June 1, 1987.

IRCA seeks to control illegal immigration to the United States, mainly by penalizing employers who hire illegals. Under the law, persons who hire, recruit, or refer for a fee an alien not authorized to work in the United States are subject to fines from \$250 to \$10,000 for each unauthorized alien. Employers who persistently hire undocumented workers face jail terms of up to 6 months.

All persons applying for employment after November 6, 1986—U.S. citizens and noncitizens alike—are required to verify that they are eligible to work in the United States by showing an approved form of identification to the employer (U.S. passport, U.S. naturalization certificate, Social Security card, U.S. birth certificate, or other authorized form). An employer must then complete a form provided by the Justice Department indicating that the worker's identification was inspected.

## Many Aliens To Gain Legal Status

Counting illegal aliens in the United States is difficult.
Estimates have varied from 2 to 6 million. Whatever the

number, a massive enforcement effort would be required to locate and deport them all, which could cause serious economic and social disruptions. Instead, the new law provides for the legalization of illegal aliens who have lived continuously in the United States since January 1, 1982—the "amnesty" provision. Aliens may apply to the Immigration and Naturalization Service for legalization from May 5, 1987, to May 4, 1988.

The intent of legalization is to give illegal aliens who have established a life for themselves in the United States the chance to become legal residents with the right to seek employment.

Some illegal alien farmworkers will qualify for legal resident status, but the seasonal nature of much farm employment means that many may not qualify because they are normally not in the United States year-round.

Many alien farmworkers work only for a few months in the United States, often for more than one employer. They return to their home country for the rest of the year. Thus, there is a question as to whether legalization alone will provide enough workers to replace the illegals traditionally employed in agriculture.

# Temporary Worker Program Revised

U.S. workers are not attracted to many farm jobs because the jobs' seasonal nature makes employment and earnings unstable. In 1985, only four of 10 hired farm workers worked 75 days or more on farms. Congress, recognizing that agriculture's labor needs may not be met by the amnesty program or by the U.S. labor force, added the Temporary Agricultural Worker Program (H-2A) and the Special Agricultural Worker Program to the new immigration law.

The new H-2A program revises the old H-2 program. Under H-2A. U.S. agricultural employers may hire alien workers temporarily when qualified U.S. workers are not available at the time and place needed. Before an employer can recruit and hire a foreign worker, though, the Department of Labor must certify that such employment will not reduce wages and employment opportunities of U.S. workers similarly employed, and the employer must agree to hire qualified U.S. workers who apply for the jobs.

To prevent the employment of foreign workers from depressing wages of U.S. farm workers, employers of H-2A workers must pay them a predetermined minimum wage, known as the adverse effect wage rate. Employers must also maintain working conditions as required by the immigration law. The adverse effect wage rates and the details of how working conditions are to be assured will be governed by the Department of Labor.

Aliens employed under the H-2A program may work only in farm jobs certified by the Department of Labor. Normally, an H-2A worker will not be permitted to stay in the United States for more than 11 months each year.

Some H-2A revisions of the H-2 program were designed to make the new program more accessible to agricultural employers. For example, the deadline for filing applications for foreign workers was reduced from 80 to 60 days before the date the employer needs workers. The law also provides for a faster appeals process for employers whose original requests for workers were denied.

Under the old H-2 program, relatively few farm jobs were certified for foreign workers. For example, only 21,000 jobs were certified in 1985, for about 1,900 employers—less than 1 percent of all farm employers. About half of the jobs were for hand-harvesting sugar cane in Florida. Tobacco growers in Virginia, apple producers in several Northeastern States, and sheep ranchers in Western States also employed H-2 workers. More agricultural employers may now turn to the H-2A program because the U.S. labor force, IRCA's new Special Agricultural Worker Program, and the amnesty program may not provide enough workers to replace the illegal aliens previously employed.

Several provisions of the H-2A program may directly affect farm labor costs. The adverse effect wage rate will normally be higher than prevailing farm wage rates. For example, under the old H-2 program, the 1986 adverse effect wage rate for workers in Virginia was 17 percent higher than the prevailing wage. Employers of H-2A workers also must furnish their workers rent-free housing and pay for their round-trip transportation to the farm.

# Special Agricultural Worker Program Aims at Perishables

The Special Agricultural Worker Program is designed to help certain employers who have traditionally relied on illegal aliens to adjust to a legal work force. It will supplement the supply of U.S. seasonal workers for producers of perishable agricultural commodities. The program is limited to workers performing "seasonal agricultural services," and it ends in fiscal 1993.

Seasonal agricultural services are defined as "field work related to the planting, cultural practices, cultivating, growing, and harvesting of fruits and vegetables of every kind and other perishable commodities....".

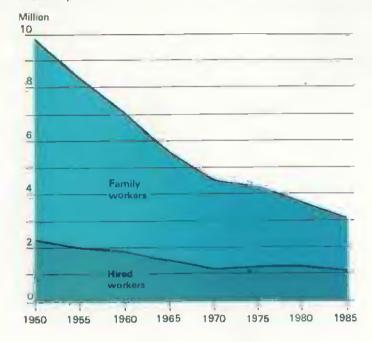
The Special Agricultural Worker Program will supplement the U.S. seasonal work force for perishable commodities in two ways. First, the program legalizes certain aliens who have worked in the United States performing seasonal agricultural services. Second, in case seasonal labor shortages persist, the program allows for "replenishment workers" to come into the United States.

The program recognizes two groups of workers who have done seasonal farm work in the United States. The first, which is capped at 350,000, includes persons who performed seasonal agricultural services for at least 90 mandays in each of 3 years ending May 1, 1984, 1985, and 1986. The second group includes all others who qualify for group one but exceed the 350,000 limit, and also persons who worked at least 90 mandays during the year ending May 1, 1986.

Eligible aliens who apply under this program are first made temporary residents, and subsequently permanent residents. Group one workers must wait a year for permanent resident status and group two workers 2 years. Aliens may apply for legalization under the Special Agricultural Worker Program from June 1, 1987, to November 30, 1988.

Although there is no requirement that these workers continue to work in agriculture after they become legal residents, it is assumed that many of them will do so. How-





ever, if there is a shortage of seasonal farm workers during fiscal 1989, the shortage will trigger a second phase of this program, providing for the admission of replenishment workers starting in fiscal 1990.

Replenishment workers will be required to work in seasonal agricultural services for at least 90 man-days per year in each of the first 3 years of residence in order to keep from being deported. If they do this, they will become permanent residents. However, they must work 90 man-days in seasonal agricultural services for 2 additional years to qualify for U.S. citizenship. All special agricultural workers are eligible to apply for employment in the nonfarm sector.

## Farmers Concerned About Immigration Reforms

The majority of farmers in the United States are not directly concerned about hired farm labor. But, the more than 800,000 farmers who do employ workers have an interest in labor issues in general and in the new immigration law in particular.

Farm employers spent about \$11 billion for hired labor in 1985. Farms with hired workers accounted for 84 percent of total crop and livestock sales. For vegetable and melon farms, fruit and tree nut farms, and nurseries and greenhouses, operations with hired workers constituted 96 to 99 percent of total sales.

On average, about 1.1 million hired workers were employed on U.S. farms in 1985. The number of persons who did hired farmwork—2.5 million—was greater than the average employment because of job turnover and the fact that different workers may be employed at different times in different production regions.

Less than 10 percent of the hired farmworkers in 1985 were migrants. Information is not available to estimate the number of illegal alien farmworkers, but given overall employment in agriculture, the number must comprise a relatively small portion of the illegal alien population in the United States.

# Decline in Family Labor Has Made Hired Labor More Critical

During the last three to four decades, both family employment and hired employment on farms have declined. But, farm family employment has fallen faster, so the proportion of hired employment has increased from about 23 percent in 1950 to 35 percent in 1985. In the early 1970's, when farmers enjoyed favorable prices and incomes, hired employment increased slightly in total numbers, as well as in share.

Employment in agriculture has decreased over the long term because of productivity gains resulting from mechanization and other improvements in farm technology, and because of higher income from off-farm employment. Farms have become fewer and larger. The decline in farm numbers reduced the number of family workers, while farm enlargement increased the number of hired workers on these bigger farms.

The mechanization of many farm operations progressed rapidly in the 1950's and 1960's, causing large declines in farm employment. Since then, the advances have slowed considerably. The mechanization of fruit and vegetable

Labor Expenses by Type of Fare. 1985 Labor Shara of expenses. total Average es Shers fare Distrisales by bution | fares with Type expenses able fare Total of lapor Depolution labor as form form I/ expenses 2/ penses 3/ farms expenses Number Parcent \$ Fercent Cash grein 223, 121 15.0 7,350 9.4 79.1 Tobacco & COTTON 75.060 7.0 10,277 Vagatable & melon 19,019 9.5 54.629 32.2 98 4 Fruit & tres nut 35.184 13.3 41.360 48.2 96.4 Nursery 8 greenhouse 72.154 Other Crop 41,05B 14.492 90.7 80mf. hogs. 264,559 6,240 \$ sheep 15.1 7.4 79.3 Dairy 124.979 Poultry Other 1sve-17,894 2.0 12,292 5.7 75.7 40.846 stock. 4.1 f1.059 20.0 84.1 All forms 060.132 100.0 12.745 14.7 84.1 1/ sverage Of ell farms reporting hired and/or contract labor expenses, 2/ verteble Form production expenses are operat expenses sinus business, insurance, isses, and rest estate interest expenses. 3/ Total crop and livestock sales. 2/ Variable Form Production expenses are operating Source: Economic Research Service. 1985 Farm Costs and Return Survey.

harvesting is far from completed, and large quantities of seasonal labor are still required in their production. Several commodities, including citrus, fresh-market apples, lettuce, broccoli, and cauliflower, are harvested mainly by hand.

# Labor Expenses Vary Greatly By Type of Farm

Differences in labor requirements among commodities are suggested by expenditures for hired labor. In 1985, vegetable and melon farms, fruit and tree nut farms, and nurseries and greenhouses combined comprised only about 8 percent of farms with labor expenses. But, they accounted for 35 percent of all farm labor expenses. All additional crop farms—including cash grain, tobacco, and cotton—reported only 27 percent of labor expenses, and livestock farms accounted for only 38 percent.

Average spending for labor on farms with hired workers varied greatly by type of farm in 1985. The labor expenditures per vegetable and melon farm were \$54,629; per fruit and tree nut farm, \$41,360; and per nursery and greenhouse farm, \$72.154. In contrast, labor expenses per operation averaged \$8,900 on all additional crop farms and \$9,200 on livestock farms.

Besides affecting some types of farms more than others, the immigration reforms are also likely to affect agriculture in some States more than others. Farms in 10 States, led by California, Florida, and Texas, account for about 56 percent of total U.S. expenses for farm labor.

# Impact Uncertain

The new law's impact on labor availability, labor costs, and farm production will ultimately depend on the decisions of farmworkers and farmers. Alien farmworkers who are eligible for legalization under the major amnesty program or the Special Agricultural Worker Program must decide whether to apply for legalization, and those who become legal residents must decide whether to seek farm or nonfarm work.

In the event that too few newly legalized aliens decide to seek farm employment to meet labor needs, farm employers must decide whether to recruit additional U.S. workers, apply for workers under the H-2A program, attempt to mechanize, or reduce production of the more labor-intensive commodities. [Robert Coltrane (202) 786-1932]



# Some International Experiences with Mandatory Supply Controls

The idea of mandatory supply controls—agricultural policies which administratively determine the amount farmers can produce and sell—is not new. The United States has used quota controls in the past for wheat, rice, sugar, cotton, tobacco, and peanuts. Marketing quotas and/or acreage allotment are currently in use for tobacco and edible peanuts. Other countries use controls too; examples include the dairy and poultry industries in Australia, Canada, and Israel, plus the EC dairy sector.

Congress is now debating a mandatory supply controls policy for major crops and dairy in the United States. Some of the long-term impacts of controls on issues such as farm income and food prices can be appraised by studying the experiences of other sectors and countries.

The first known attempt to regulate agricultural production by using quotas was in Virginia in 1621. Each grower was restricted to 1,000 tobacco plants of 9 leaves each. At that time, Virginia tobacco farmers were concerned about losing their share of the British tobacco market to "foreign" competition from the Caribbean Islands and Maryland, which refused to restrict production.

Mandatory controls on cotton and tobacco production were introduced in 1934. The 1938 Agricultural Adjustment Act expanded controls to other crops. The act required the Secretary of Agriculture to proclaim a marketing quota if anticipated supplies of a commodity exceeded a "normal" supply. Two-thirds of the voting growers had to approve the marketing quota in a special referendum. If the quota was approved, a grower could not sell more than a specified amount of the commodity or plant more than a specified acreage without incurring a high tax. If voters failed to

approve a marketing quota, price support loans on that commodity were not available for that marketing year. Or, if available, they were at a lower rate.

Marketing quotas for cotton were in effect from 1938 to 1943. Rice and tobacco quotas were proclaimed in 1939 and 1940, but were later rejected by producers. However, in subsequent years tobacco producers, confronted by record production and a collapse of prices, became staunch supporters of marketing quotas. Marketing quotas for wheat were approved by over 80 percent of voting growers in 1941 and 1942.

By 1941, marketing quotas were in effect for tobacco, sugar, upland cotton, wheat, and peanuts, but production restrictions were suspended during and immediately after World War II. Mandatory tobacco and edible peanut programs were reinstated after the war and have continued with modifications since then. In the 1950's, quotas were periodically in effect for wheat, cotton, and rice.

The Kennedy Administration proposed a broad system of mandatory controls in 1962, but only the wheat proposal became law. Even the wheat controls were shortlived—they were defeated in 1963. After that, programs favored voluntary rather than mandatory compliance.

Among foreign countries, well documented studies of mandatory controls exist for only a few cases, such as the egg and dairy industries in Australia, Canada, and Israel.

With the exception of tobacco in the United States and dairy in the European Community, controlled commodities are produced for the domestic market in each country and are not important export products. In addition, excepting U.S. tobacco, supply controls have been accompanied by strict import restrictions that have isolated the domestic market from foreign competition. Also, small reductions in the quantities produced have resulted in large increases in price. For example, in Australia and Canada, a 1-percent decline in the supplies of fluid milk and eggs can result in retail price increases of 5 to 10 percent.

# Under Controls, Prices Are More Stable But Higher

Mandatory supply control policies have been justified for various reasons, including food security, price stability, increased farm income, health standards, rural development, and settlement of the land. In the long run, the policies tend to shift all or most of the cost of supporting farm income from the Government to consumers: consumers have more stable but higher prices under mandatory supply controls.

The controls' effects on prices can be illustrated by comparing U.S. egg and milk price trends with prices in countries that have mandatory supply control programs. Sufficient competition exists in the U.S. egg and dairy sectors (even with dairy price supports) that over time, real prices decline when supplies increase relative to demand. Since Canadian and Australian quotas were tightened or imposed in the middle 1970's, the gaps between U.S., Canadian, and Australian prices have clearly increased.

Country	Period		L@ve1		Are			
and Commodity	first implemented	Restricted item	of price setting	Level of enforcement	quotas marketable?	Enforcement by	Import 11mits	Exports
ustralie	:				7			
Dairy	1960-1976	Fluid milk	all levels	State	No 1/ :	State boards		Mainly surpluses
Eggs	1972-1975	Hens	A11 levels	State	: Yes	State boards	Restricted :	Surpluse: only
Sugar	1915 :	Acres & weight	Refinery	State & federal	Yes	State boards	: Prohibited :	No re- etriction
Tobacco	1965	Weight	Farm level	Federal	Yes	Federal board	:43% of total:	
anada	:						. Gordang Croii.	01110110
Oatry	1965-1975	All milk	All levels	Federal & provincial	Yes	Federal & Provincial boards	Restricted :	Surpluse only
Eggs	1972	Hens	Form level	Federal 6 provincial	Yes 2/	Federal 5 Provincial boards	Restricted :	Surpluse only
Poultry meat	1974-1978	Live weight		Federal 5	Yes	Federal & : provincial boards	Restricted:	Surpl <b>us</b> e only
Tobacco	1957	Weight	: Form level	: Provincial	: Yes		Tariff Only	
uropean Community			\$	•		board		strictio
Datry	1984-1986	All milk	: Farm lavel	Community &	: No	Country's dairy board	Restricted :	Large &
srael			•	. country		Colly Doer G	* # # # # # # # # # # # # # # # # # # #	2003121
Dairy	1968	All milk	All levels	: National	No	Dairy board	Restricted :	Surpluse only
Eggs	1968	∆11 eggs	All levels	National .	: No	Poultry board	: Restricted :	Surpluse only
Poultry	1970	Live weight	All levels	: . National	No	Poultry board	: Restricted	Surptuse

Fede**ral** 

F@derai

Yes

Vary

by type

ASCS

ASCS

Restricted =

Open

No re-

strictions

No re-

strictions

1934

1938

Peanuts

Tobacco

Domestic : Farm level :

1/ Marketable in only one State. 2/ Marketable only with the whole form.

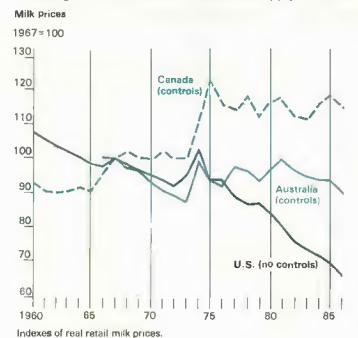
: Farm level :

edible weight:

Weight & acres

Agricultural Outlook

Prices Higher in Countries With Mandatory Supply Controls



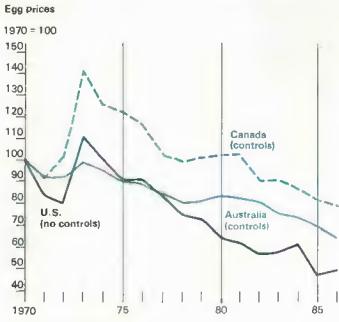
Over the last 20 years, U.S. real retail prices of eggs have declined by about 50 percent and milk prices by 30 percent. In contrast, real retail prices of eggs and milk in Australia and milk in Canada have remained almost constant or have declined only slightly. The Bureau of Agricultural Economics in Australia estimates that Australian consumers paid 40 percent more for eggs in 1983 than they would have without supply controls. Similarly, real retail milk prices in Canada are about 30 percent higher than those in the United States.

Mandatory supply controls stabilize prices because they reduce year-to-year variations in output. For example, real retail egg prices in Australia now vary only about two-thirds as much as before quotas were tightened. Egg production levels vary only about half as much as before the middle 1970's.

An individual producer's income under mandatory supply controls is affected by higher real farm prices, the level of production, the number of producers, and the quotas themselves, which become capital assets.

Just as with retail prices, real farm prices under controls have either increased or remained constant. Meanwhile, in the relatively competitive U.S. agricultural economy, real farm prices have generally declined.

To illustrate, after the tightening of mandatory supply controls in Ontario, real fluid milk prices there rose and then stabilized above levels of the 1960's. In contrast, U.S. real farm milk prices increased in the early 1970's, but then declined very significantly, especially after 1979. Thus, the real prices received by farmers for fluid milk under quotas in Ontario are much higher than those received by U.S. dairy farmers, even though U.S. prices are supported by Government purchases of dairy products.



IndexeS of real retail egg prices.

Egg and dairy output in Australia and Canada have been only marginally affected by mandatory supply controls. Because of implementation problems, the EC's effort beginning in 1984 to cut dairy production has so far failed. Actual EC dairy production increased slightly in 1985 and. 1986, despite the quotas put into effect in 1984.

#### Controls Have Not Stopped Decline in Farm Numbers

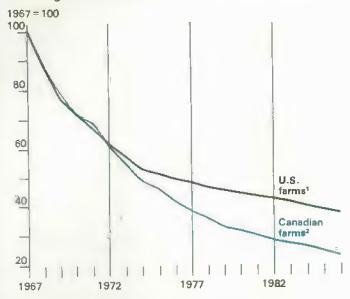
Mandatory supply control programs in Australia and Canada have not halted the decline in the number of farms. Since quota imposition in the mid-1970's, the number of Australian egg producers has dropped about 70 percent, from around 6,000 to less than 1,800 currently. Similarly, over the last 20 years the number of Canadian dairy farms has declined by about 80 percent, from around 175,000 in 1967 to 40,000 in 1986. By comparison, the number of U.S. dairy farms has declined about 60 percent.

One partial explanation is that in cases where production quotas can be bought and sold, as in Australia and Canada, quota holders may have a greater incentive to leave the industry because they can sell their quotas. At the same time, the cost of buying the quotas is likely to slow the entry of new farmers into the industry. For example, in Ontario, most of the dairy quota rights traded have been purchased by existing dairy operations rather than by new ones.

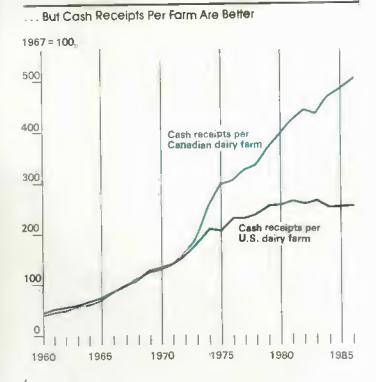
Once production controls are established, the quotas themselves become capital assets. For example, in 1986 the average price of Group I (fluid milk) quota in Ontario was Can\$131.00; this gives the buyer the right to sell 1 pound per day indefinitely or until the quota is sold. Adjusted for inflation, the value of the quota has increased fivefold since 1968. Elimination of quotas in the U.S. tobacco industry would cost owners an estimated \$400 million per year in lost quota rents.

The value of the quotas means that the farmers who are producing when quotas go into effect gain wealth. But, new or expanding producers must pay the full cost of the quotas if they decide to move into or expand production. For example, the Ontario Milk Marketing Board has estimated that the cost of a milk quota for a 40-head dairy operation in Ontario is around Can\$180,000. For a new dairy operation, this represents about 30 percent of the total initial investment.

With Supply Controls, Canadian Dalry Farm Numbers Are Shrinking Faster Than U.S. . . .



<sup>1</sup>Based on Census of Agriculture in 1964, <sup>1</sup>69, <sup>1</sup>72, <sup>7</sup>78, and <sup>1</sup>82. <sup>2</sup>Registered dairy farms.



# Producers' Income Raised

Mandatory supply controls have substantially raised gross farm income for commodities that are not exported. For example, since 1960, real cash receipts from dairying in Canada have increased more than 50 percent. In the United States, real dairy cash receipts peaked in 1979 at 20 percent above the 1960 level, but then declined sharply. Thus, Canadian receipts in 1986 were 50 percent higher than in 1960, while U.S. dairy farms have real cash receipts similar to those in 1960.

The benefits of quotas to dairy producers in Canada were estimated at around Can\$1.0 billion in 1980. While current estimates are not available, the real price of a quota in Ontario has increased more than 300 percent since then. For farmers who remain in business, the improvement in income has been even greater, because the number of producers is continuously declining. For example, during 1967-86, the average real cash receipts per dairy farm in Canada increased 400 percent, while receipts in the United States increased only 150 percent.

# Effects Hurt Low-Income Consumers, Help Large Farmers

The higher prices due to production and marketing controls affect low-income consumers the most, since they spend a larger proportion of their disposable income on food than high-income families do. This is especially significant for basic food commodities such as eggs and milk. The portion of income spent on eggs by the lowest income family group in Australia is six times greater than the portion spent by the highest income group.

Furthermore, the income transferred away from consumers is distributed disproportionately among producers, with more going to the big operators. This transfer is not subject to any payment limits. For example, during the 1981-82 season, the largest 4 percent of the egg producers in Australia received 37 percent of the income transferred, or Aus\$26.43 million. The average transfer per producer in that 4-percent group amounted to close to Aus\$300,000 per year. Thus, mandatory supply controls create an increased burden on low-income consumers and an increased benefit for large producers.

# Controls Do Not Eliminate Government Spending

Even though mandatory supply control programs transfer most of the cost of supporting farm incomes directly to consumers, there still remain Government costs for storage, surplus removal, program enforcement, and direct subsidies. The Canadian Government has spent around Can\$250 million annually on dairy price supports since 1980.

Even higher government costs are evident when export subsidies are coupled with mandatory supply controls to prevent higher domestic prices from leading to a loss of exports. Despite its attempt to cut the cost of the dairy program by imposing quotas in 1984, the EC is still spending around \$6 billion per year on the program, 40 percent of that directly related to exports.

Under mandatory control programs, enforcement slip-ups and unanticipated production increases have in some cases led to surpluses that have had to be exported at large losses. In the EC, despite attempts to cut dairy production, dairy supplies still increased in 1985 and 1986. Therefore, export subsidies did not decline.

These EC subsidies are about 11 percent of the value of production. The subsidized exports also helped drive down world prices of dairy products, benefiting importers. Now, the EC must choose between two costly options: managing surpluses and subsidizing exports, or forcing a further reduction in the EC dairy herd.

# Quotas Are Not Easy To Enforce

A successful mandatory supply control program requires strict guards over the quantity that reaches the market. Other countries have had mixed success in enforcing quota restrictions, depending on four major factors: (1) the number of producers, (2) the regional distribution of production, (3) whether the product is raw or processed, and (4) the enforcement tools used.

A mandatory supply control structure is in essence a legal grant of market power to a limited group of producers. But this limited group can still be large and hard to monitor. Even in a small country such as Israel, there are more than 3,000 egg producers.

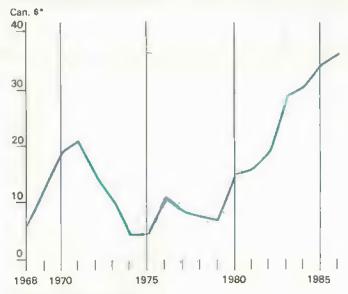
Australia's egg producers are fewer in number - 1,800-but they are spread over a large geographical area, also making enforcement of controls difficult. If production is concentrated in a relatively small region, as are the U.S. tobacco and peanut industries, enforcement is easier.

Enforcement problems are greater for commodities that do not require significant processing. In both Australia and Israel, enforcement of production controls on eggs has had limited effectiveness because many egg farmers are involved in undetected direct trade. It is estimated that the illicit egg markets in those countries account for about 20 percent of total production.

In contrast, consumers are not likely to engage in direct trade for products requiring substantial processing, because the number of processors is normally small and they can be easily monitored. Enforcement does not seem to be a problem with fluid milk industries in Canada, Australia, and Israel.

Experience indicates that the more economic sanctions are used, the more effective the enforcement is. These sanctions take the form of levies on excess production, forced livestock sales, denying producers subsidies, recision of

Price of Milk Quotas Traded in Ontario is Rising



\*1967 dollars per pound per day. Source: Ontario Milk Marketing Board.

quotas, and curtailment of technical and marketing services. In Israel, the Government uses a carrot rather than a stick, giving a direct 25-percent subsidy to induce egg producers to sell through official traders.

One example of a successful enforcement system is the Canadian egg industry, which deals with a raw product but apparently has very little illicit production. The system includes stiff fines for overproduction, as well as periodic Federal and provincial counting of the hens held by the farmers. For example, in Ontario there is one provincial inspector per 125 egg producers. The total cost of administering the egg program to the federal Government is between Can\$4,000 and \$5,000 per producer per year. In addition, the Ontario government spends \$600 to \$700 per producer per year for inspections.

# Mandatory Controls Are Difficult to Abolish

In countries where quotas are traded, they have become an integral part of producers' wealth. Thus, as demonstrated by the Australian egg industry, once mandatory supply control policies are adopted, the task of abolishing the quota structure is extremely difficult. This is because such step would reduce existing farmers' wealth and anticipated income. In many cases, quotas have apparently become a permanent part of agricultural sector. [Dan Dvoskin (202) 786-1403. Other contributors: Steve Blank, Sally Byrne, Richard Fallert, Carol Goodloe, Mike Kurtzig, Tom Lederer, Mary Anne Normile, Jane Porter, Jerry Sharples, and Dan Sumner.]

# **Summary Data**

Table 1.-Key statistical indicators of the food and fiber sector

			1986				198	7	
	1	11	111	ΙV	Annual	1 F	11 F	111 F	Annual F
Prices received by fermers (1977+100)	123	122	124	122	123	122	119	120	120
Livestock & Products	133	130	146	144	138	143	140	141	141
Crops	112	113	101	100	106	100	96	98	98
Prices paid by fermers. (1877=100)									
Prod. Itaes	149	145	144	142	143	143	146	145	145
Commodities & wervices, int.,	163	161	159	158	159	159	160	161	160
Cash receipte (\$ bil) 1/	129	130	130	146	134	128	122	128	128-130
Livestock (5 bil)	66	67	75	76	71	69	70	73	70-72
Crops (\$ bil)	631	64	55	70	63	59	52	55	57-59
Market Decket (1967=100)	+0	44				40			
Retail cost	285	284	292	294	289	292	292	294	293
	226	222	244	243	234	232	231	237	235
Fern Value		320	319	324	321	327	327	327	327
Spread	319		31	30		29	29	30	30
Ferm velue/retail cost (%)	30	29	31	30	30	23	5.3	30	30
Reteil prices (1967+100)	4	A							240 400
Food	315	317	322	324	320	327	328		326-333
At home	302	302	308	310	305	313	313		311-317
Away-from home	354	359	362	366	360	367	371	- 1 -	371-378
Agricultural exporte (\$ bil) 2/	7.4	5.7	5.5	7.5	26.3	7.1	5.9	5.5	26.0
Agricultural importe (\$ 511) 2/	5.6	5.4	5.0	5.1	20.9	5.3	5.0	4.6	20 0
Production:									
Red Best (mi) 10)	9.551	10,021	9.720	9.752	39.051	9.507	9,452	9.531	38,090
Poultry (mil 16)	4.107	4.536	4.685	4,601	17.929	4.420	4.925	5.065	19.380
Eggs (m1) doz)	1.422	1,421	1.413	1.457	5.715	1.435	1.430	1.425	5,765
#13h (pri 3b)	36.2	38.4	35.6	33.9	144.1	34.7	37.3	35.4	141.4
Consumption, per CMPite:	*10.*			40.0	****				
Red met and poultry (1be)	51.9	54.1	53.9	55.1	215.0	52.1	84.0	54.2	216.1
Corn beginning stocks (mil bu) 3/	8,614.7	6.587.1	4,990.0	4.039.5	4.039.5	10,304.1	B. 246.B		5.240.0
		1.599.4	956.5	1.990.1	6.900.0	2.057.6	0.240.0		
Corn use (mil bu) 3/ Prices: 4/	2.028.9			.,		***	63-67	61-67	61-65
Choice eteersOmana (\$/cut)	57.22	54.52	50.91	60,36	57.75	60.50		44-50	44-48
Benrous and gilts7 mits, (\$/cwt)	43.30	47.23	61,13	53.08	51.19	48.00	45-49		
Broilere-12-City (Cts/lb)	50.3	54.3	66.6	56.2	56.9	50.0	50-54	48-54	49-53
EggeNY Gr. A large (Cts/doz)	74.2	63.4	T2.8	74.0	71.1	64.8	59-63	63-69	64-68
Milkell at Plant (\$/cut)	12.37	11.97	12.30	13.30	12.48	12.93	11.85- 12.15	12.10- 12.50	12.35 12.75
WheatKeness City HRW (\$/pu)	3.33	3.22	2.50	2.65	2.93				
CornChicago (s/bu)	2.48	2.51	1.72	1.62	2.23				***
Soybeans Chicago (\$/pu)	5.34	5.32	4.90	4.86	5.11				<b>→</b> =
Cottonavg. spot mkt. (cts/1b)	60.0	63.9	42.0	48.0	53.5	0.0-			
	1979	11980	1981	1982	1983	1984	1985	1986 P	1987 F
ross Ceen Income (\$ 511)	135. I	143.3	146.0	150.6	150.2	154.9	156.2	150	149-151
Gross cash expenses (\$ bil)	101.7	109.1	113.2	113.6	113.0	115.6	112.1	106	102-104
Net cash income (\$ 011)	33.4	34.2	32.6	36.8	37.1	39.3	44.0	44	46-48
Net farm income (\$ bil)	27.4	16.1	26.9	22.7	13.0	32.7	30.5	29	31-33
Form real setate values (1977=100)	125	145	158	157	148	146	128	112	103

if Quarterly data seasonally adjusted at annual rates. 2/ Annual data based on Oct.-Sept. fiecal years anding with year indicated.
3/ Dec.-Fao. first Quarter: Mar.-May second Quarter: June-aug. third Quarter: Sept.-Nov fourth Quarter: Sept.-Aug. annual. Use includes exports and domestic disappearance. 4/ Simple sverages. F = forecast. P = preliminary.

Table 2.-- U.S. gross national product and related data

		Annua 1		1965		1986	5	
	1984	1985	1986 R	IA	I	11	III	IV R
		\$ 61111	on (Quenter	ly date Fee	Opnally adj	ueted et en	nuel retes	)
ross nations) product	3.765.0	3,998.1	4,206.1	4,087.7	4,149.2	4,175.6	4,240.7	4.258.7
Paraonal consumption	0.400.0		0.700.6	2 662 0	2 (01 0	2.732.0	2.799.8	2,820.4
expanditures	2,428.2	2.600.5	2,762.5	2,667.9	2,697.9 360.8	373.9	414.5	403.1
Dureble goods	331.2	359.3	386.1	362.0	929.7	928.4	932.8	940.1
Nondurable goods	870.1	905 . 1	932.7	922.6	161,3	165.0	166.6	166.1
Clothing & shows	147.2	155.2	164.9	158.7			494.0	502.
Food & beverages	449.9	469.3	492.6	477.4	484.6	490.3		
Services	1.227.0	1.336.1	1,441.7	1,383.2	1,407,4	1,429.8	1.452.4	1,477.
ross Private domestic							676.0	
Invastment	662.1	661.1	683.6	669.5	708.3	687.3	675.8	663.
Fixed investment	598.0	650.0	677.0	672.6	664,4	672.8	680.3	690.
Change in business inventories	64.1	11.1	6.7	-3.1	43.0	14.5	-4.5	-27.
et exporte of goods & services overnment purchases of	-58,7	-78.9	-104.3	- 105 . 3	-93.7	-104.5	-108.9	-110.
goods & services	733.4	815.4	864.2	B55.€	836.7	860.8	874.0	885.
		1982 \$ b1	ilton (Quer	terly date	seasonal ly	adjusted st	ennuel re	tea)
ose national product erechel consumption	3,489.8	3,585.2	3.674.9	3,622.3	3,655.9	3,661.4	3,686.4	3,696.
	2 246 2	2,324.5	2.418.7	2.351.7	2.372.7	2.408.4	2.448.0	2,445.
expenditures	2.246.3	343.8	2.418.7 368.6	347.0	345.4	357.1	391.6	380.
Ourable goods	310.9					877.3		
Nondurable goods	828.6	841.6	872.1	847.2	860.6		875.4	875
Clothing & shoes	142.7	146.0	155.6	147.5	152.4	157.1	157.7	155 .
Food & beverages	424.2	433.4	440.5	435.1	441.1	444.2	437.9	438
Services	1.098.7	1,139.0	1,178.0	1,157.5	1,166.6	1,174.0	1,181.0	1.190.
one private domestic investment	652.0	647.7	657.2	653.2	684.0	664.7	651.3	629.
Fixed investment	592.8	630.6	650.7	658.4	644.1	649.6	651.6	657.
Change in business inventories	59.2	9.0	6.6	-5.2	39.8	15.1	-0.3	~28.
t axports of goods & services	-83.6	-108.2	-147.6	-132.0	-125.9	-153.9	-163.3	-148.
evernment purchases of								
goods & services implicit Price deflator	675.2	721.2	746.8	749.4	725.2	742.2	750.4	769 .
change	3.0	3.3	2.7	3.6	2.5	1.8	3.6	
posable paragnal income (\$bil)	2,670.6	2.828.0	2.971.6	2,882.2	2.935.1	2,978.5	2.879.9	2,983.
Possple per, income (1882 \$511)	2,470.6	2,528.0	2,602.0	2.540.7	2,581.2	2,625.8	2,605.5	2.595.
capita disposable per, income (\$)		11.817	12,304	11,999	12.193	12,348	12.324	12.348
capita dia. per. income (1982 \$)		10.563	10,773	10,577	10.723	10.886	10.776	10,708
, population, total, incl. military			241.6	-240.2	240.8	241.3	241.9	242
orcad (mil)  vilian population (mil)	237.1 234.9	239.3 237.0	239.4	238.0	238.5	239.1	239.6	240
		Annual			1986		19	87
	1984	1985	1986 P	Feb	Nov	Dac	Jan	Feb
			Mant	hly data se	esonally ed	justed		
dustrisl production (1977=100)	323.4	123% है"	125.0	125.3	126.0	126,6	126.8	127.
ading economic indicators	165.3	168.6	179.2	175.0	182.5	186.6	185.8	197.
1967=100) viiin emoloyment (Mil. persons)	105.0	107.2	109.6	108.6	110.4	110.6	111.0	111
vilian unemployment rate (%)	7.5	7.2	7.0	7.1	6.9	6.6	6.6	6
oil monual rate)	3,110.2	3.314.5	3.485.7	3,435.3	3,523.3	3.542.7	3,548.9	3,581
nev stock-H2 (daily svg) (\$bil) 1/	2.373.7	2.566.5	2,799.8	2.582.4	2,775.4	2.799.8	2,822.0	2,821
ee-month Trassury bill rate (%)	9.58		5.98	7.03	5.35	5.49	5.45	
corporate bond yield (Moody's) (%			9.02	9.67	8.68	B. 49	8.36	
ising starts (thou) 2/	1,750	1.742	1,806	1.923	1,637	1.013	1.804	1,851
	10.4	11.0	11.5	10.8	10.5	13.6	6.2	9
to sales at retail, total (Mil)	1.34	_	1.37	1.37	1.35	1.31	1.36	
singes inventory/esise ratio					121.1	126.9	117.5	
the second company of the first terms of the first	107.8	114.5	117.8	117.1				
		24.0	74.0	77 0				
ondurable goods stores (\$ bil)	68.9	71.6	71.6	73.0	74.0	74.8	74.6	
les of ell reteil stores (\$ bil) ondurable goods stores (\$ bil) Food Stores (\$ bil)	68.9 22.5	23.5	24,5	24.2	24.9	25.1	24.9	P 25
ondurable goods atoras (\$ bil)	68.9							P 25 P 12

<sup>1/</sup> Annual data as of December of the year listed. 2/ Private, including farm. P = preliminary. R = revised.

Information contact: James Malley (202) 786-1283.

Table 3. - Foreign economic growth, inflation, and export earnings

	Average 1970-74	Average 1975-79	1980	1981	1982	1983	1984	1985	1986 est
				Annua	l percent o	Change			
Total foreign						-			
Real GNP	5.5	3.7	2.6	1.6	1.7	2.0	3.2	2.9	2.6
CP1	10.2	14.0	16.7	15.8	14.4	18.7	21.3	21.0	11.2
Export marnings	27.5	14.6	22.6	-2.2	-6.8	-2.6	5.4	1.6	
Developed less U.S.									
Real GNP	4.8	3.1	2.3	1.3	1.1	1.9	3.5	3 1	2.5
CPI	8.4	9.4	10.9	9.6	8.1	6.1	5.1	4.6	2.8
Export earnings	23.9	14.9	17.0	-3.3	-4.2	-0.5	6.1	4.9	19.4
Centrally Planned									
Real GNP	5.1	3.5	1.5	2.1	2.7	3.4	3.7	3.0	3.4
Export sernings	19.4	16.1	16.5	3.4	6.0	8.2	1.5	-5.1	
Latin America									
Rual GNP	7.74	5.1	5.3	0.7	-0.5	-2.7	3.2	3.6	3.1
CP1	23.5	53.7	61.3	64.9	72.6	126.2	174.3	179.6	86.3
Export sarnings	28.1	12.8	30.1	4.8	-9.7	-0.8	7.1	-5.3	
Africa & Middle East					<b>-</b> 1.		. , ,		
Real GNP	8.9	6.4	1.3	Q. O	1.4	0.1	0.2	0.6	-1.0
CPI	8.7	16.4	22.1	19.7	12.0	19.0	5.0	4.7	8.3
Export earnings	49.6	43.2	38.5	-7.0	-18.8	-17.2	-8.1	-8.6	
Atte	4310	44.4	54.5	***	141.0	11.4		0.0	
Rest GNP	6.0	6.8	6.3	6.6	3.6	6.6	5.6	3.3	4.1
CPI	13.0	8.4	16.4	14.1	7.3	7.7	8.5	4.9	4.9
Export earnings	30,1	19.4	27.3	5.0	-0.6	3.8	13.5	-3.4	4.5
EXPORT MALLILIDE	30.1	10.4	41.3	3.0	0.0	3.0	13.3	-3.4	

Information Contact: Timothy Baxter (202) 786-1688.

## Farm Prices

Table 4. - Indexes of prices received and paid by farmers, U.S. average

		Annue1			19	86			1987	
	1984	1985	1986 P	Mar	Oct	Nov	Dec	den	Feb R	Mar i
					1977=100					
Prices received										
All fame Products	142	128	123	422	404	124	40.4	124	100	123
All crops	138	120	106	122	121 97	103	12 1 99	121	122	10
Food grains	144	133	109	135	92	97	99	100	102	10
Fand Grains & hay	145	122	98	112	76	79	80	78	78	7
Feed grains	148	122	96	111	72	76	77	76	74	7
Cotton	108	93	81	96	78	89	90	84	79	9
Tobacco	153	154	138	143	130	131	131	130	131	13
Oil-bearing crops	109	84	77	79	72	76	76	72	72	7
Fruit. ell	200	183	168	148	184	192	170	160	175	17
Frash market 1/	218	196	176	154	193	203	177	166	182	17
Commercial vegetables	135	128	130	123	131	146	120	149	14.1	15
fresh market	133	123	123	116	123	142	112	151	137	15
Potatoes & dry beans	157	125	114	94	113	119	125	126	126	
Livestock & products	146	136		132		145	141		144	13 14
Hest enimals	151	142	138 145	136	145 150	145	146	142 150	155	19
Oetry products										
	139	131	129	126	135	138	138	137	133	13
Poultry & eggs	135	119	129	125	139	136	124	118	115	11
Prices Peld										
Commodities & services.										
interest, texas, & wage retes	165	163	159		158			159		-
Production Items	155	151	145		142		ī	143		7
Feed	135	116	108		99			99		100
Funder livestock	154	154	153		160			164	=-	2.5
Swed	15 1	153	148		146		des eds	146	T-10-1	-
Fertilizer	143	235	124		116			116		_
Agricultural chesicals	128	128	127		126			126		-
fuels & energy	201	201	162	5/*	150			158	* *	-
Fare & motor supplies	147	,146	144	-4	143			143	to be	-
autos & trucks	182	193	198		199			196		-
Tractors & self-propelled machinery	181	176	174		172			172		_
Other mechinery	180	103	184		164			184		-
Building & rending	136	136	136	rer sh	136	A-		136		
Fere dervices & cash rent	149	150	150		150			148	-2	-
Interest payable par acre on farm real estats debt		230	213	- *	213			207		-
Texas payedle per ecre on farm reel satate	132	133	134		134			136		-
Wage rates (seesonally edjusted)	151	154	160		159		,	159		41
Production ftems, interest, taxes, & wage rates	162	157	151		149			149	= "	-
atto. Prices received to prices paid 2/	86	79	77	76	77	78	77	76	77	7
Prices received (1910-14=100)	650	586	561	557	555	568	<b>55</b> 1	552	558	55
Prices paid. etc. (Perity index) (1910-14-100)	1, 132	1.120	1,097		1,089			1,091		
Parity retio (1810-14-100) 2/	56	52	51		51			50		

<sup>1/</sup> Fresh market for moncitrus; fresh market and Processing for citrus. 2/ Ratio of Index of Prices received for ell farm products to index of Prices paid for commodities and services, intersat, texas, and sage rates. Ratio derived using the most recent prices paid index. Prices Paid data will be published in January, April, July, and October. Preliminary. Rr revised.

Information contact: National agricultural Statistics Service (202) 447-5446.

Table 5.—Prices received by farmers, U.S. average

•										
		Annual*			1:	986			1987	
	1984	1985	19 <b>86</b> P	Mar	Oct	Nov	Dac	dan	Feb R	Mar P
Crops										
All wheat (\$/bu)	3.46	3.20	2.71	3.28	2.30	2.43	2.49	2.53	2.58	2.57
Rice, rough (\$/cwt)	8.32	7.85	5.04	7.60	3.90	3.93	3.76	3.61	3.80	3.71
Corn (\$/bu)	3.05	2.49	1.96	2.29	1.40	1.47	1.50	1.47	1.42	1.41
Sorghum (\$/cwt)	4.60	3.97	3.11	3.67	2.35	2.38	2.41	2.37	2.36	2.49
All hey, baled (\$/ton)	75.40	69.90	61.90	67.10	57.40	56.50	57.20	55.40	58.10	57.90
Soybeana (\$/bu)	7.02	5.42	5.00	5.23	4.55	4.64	4.67	4.69	4.69	4.69
Cotton, Upland (cts/1b)	65.6	56 . 1	54.7	58.1	47.1	52.9	54.7	51.0	47.7	51.3
Potatoes (\$/cut)	5.69	3.92	4.94	3.50	4.27	4.64	4.73	4.82	4.91	5.23
Lattuca (\$/cwt) 1/	11.00	10.90	11.20	9.92	8.31	12.00	11.00	14.80	9.05	13.60
Tomatoes (\$/cut)	25.60	24.10	25.40	25, 10	30.00	36.30	19.00	28.30	25.80	30.20
Ontone (\$/cut)	11.70	9.75	9.80	7.25	10.40	12.70	12.00	16.90	16.70	17.90
Ony adible beens (\$/cut)	18.70	17.60	18.80	17.00	20.60	20.00	22.70	22.00	20.30	19.20
Apples for fresh use (cts/1b)	15.5	17.3	NA	17.2	20.1	10.5	17.9	17.9	19.5	19.6
Pears for fresh use (\$/ton)	300.00	349.00	396.00	389.00	419.00	396.00	390.00	376.00	407.00	403.00
Oranges, all uses (\$/box) 2/	5.95	7.41	4.18	3.85	4.47	6.58	4.59	4.24	4.75	4.79
Grapefruit, ell uses (\$/box) 2/	2.68	4.01	4.21	3.94	6.29	4.19	4.54	4.50	4.55	4.76
Livestock										
Beef cattle (\$/cwt)	57.60	54.00	52.80	52.40	54.40	54.60	53.20	56.40	58.80	59.20
Calves (\$/cwt)	60.20	62.40	60.90	61.90	62.70	62.20	62.20	66.40	70.60	71.90
Hogs (\$/cwt)	47.60	43.90	50.10	40.40	53.10	52.80	50.60	47.20	48.20	46.70
Lembe (\$/cwt)	60.30	68.10	69.10	64.90	62.50	69.30	73.20	76.60	76.00	81.20
All milk, sold to Plants (\$/cwt)	13.50	12.70	12.50	12.20	13.10	13.40	13.40	13.30	12.90	12.60
Milk, manuf, grade (\$/cwt)	12.49	11.72	11.50	11.30	12.10	12.30	12.30	12.00	11.60	11.50
Broflers (cte/lb)	33.2	30.2	34.7	30.2	40.7	34.9	30.6	31.1	30.1	29.1
Eggs (ctm/doz) 3/	70.3	57.4	60.3	68.3	50.1	66.3	65.2	59.3	58.3	54.4
Turkeys (cte/lb)	46.6	47.2	44.2	36.9	52.6	51.5	41.5	34.9	35.3	37.6
Wool (ctm/1b) 4/	79.5	63.3	66.0	61.9	68.2	62.3	62.0	57.0	59.6	71.0

1/ Due to program modifications, 1983 date not comparable with 1984 and 1985. 2/ Equivalent on-tree returns. 3/ Average of all eggs sold by producers including hatching eggs and aggs sold at ratall. 4/ Average local market price, excluding incentive payments. \*Calendar year everages, except for potatoes, dry adible beans, applies, pranges, and grapefruit, which are crop years. P = preliminary. R = revised. NA = not everlable.

Information contact: National Agricultural Statistics Service (202) 447-5446.

## Producer and Consumer Prices

Table 6.—Consumer Price Index for all urban consumers, U.S. average (not seasonally adjusted)

	Annual				1986				196	7 1/
	1986	Feb	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
					196	7=100				
Consumer Price index, all items	328.4	327.5	328.0	328.6	330.2	330.5	330.6	331.1	333.1	334.4
Consumer price index, less food	328.6	328.5	328.0	328.1	330.0	330.2	330.4	330.6	332.2	333.6
All food	319.7	315.3	320.1	322.7	323.2	323.7	324.6	325.2	328.9	330.1
Food away from home	360.1	354.2	360.8	361.18	363.3	364.0	365.8	367.1	368.6	369.6
Food at home	305.3	301.5	305.5	308 9	309.0	309.5	309.9	310.2	315.2	316.6
Heats 2/	273.9	268.4	272.9	279.8	283.6	283.9	285.4	286.3	288.6	285.3
Boof & veel	271.4	272.3	267.6	270.9	272.4	273.6	277.6	279.5	282.9	280.7
Pork	273.8	257.0	278.0	292.6	300 . 1	298.0	295.6	294.2	294.0	289.8
Poultry	232.7	218.5	240.3	255.0	249.5	247.8	245.2	241.9	239.4	237.0
Fish	443.2	430.6	447.3	446.3	447.2	451.6	449.7	457.6	478.0	479.9
Egge	186.3	186.7	175.2	192.9	186.0	186.2	195.8	198.6	193.2	187.4
Deiry products 3/	258.4	257.3	258.4	258.3	258.5	260.0	261.2	262.2	263.3	264.7
Fata & oile 4/	287.8	291.4	287.3	287.8	285.6	284.6	285.4	286.0	293.2	290.3
Fresh fruit	369.3	353.3	382.2	391.5	384.1	375.1	360.6	355.8	389.1	406.7
Processed fruit 5/	163.3	165.7	161.8	162.3	161.9	162.0	162.0	163.1	165.7	166.3
Freeh vegetables	330.3	311.1	325.0	321.9	321.0	329.0	338.9	342.5	356.3	377.7
Potetoes	307.3	262.8	356.0	357.9	335.4	323.4	325.7	332.0	340.1	357.0
Processed vegetables 5/	147.4	147.6	148.4	148.5	146.9	146.2	146.5	147.4	150.2	148.5
Careala & bakery products 5/	325.8	322.5	326.3	328.2	328.5	328.4	328.5	329.5	331.5	332.7
Sugar & sects	411.1	408.6	412.4	413.1	413.7	413.4	412.4	411.0	415.8	415.8
Beverages, nonsicoholic	478.2	485.3	478.3	476.9	475.7	477.5	476.9	470.2	482.6	481.9
Apparel commodities less footween	188.8	185.2	183.3	188.1	194.0	194.6	194.4	191.7	187.7	189.0
Footwear	211.2	207.9	209.1	209.6	212.0	215.1	215.1	214.0	209.9	211.0
Tobacco Products	351.0	344.7	354.3	356.2	356.8	357.2	357.3	357.6	364.9	368.3
Beverages, elcoholic	239.7	238.3	240.4	240.1	240.4	240.6	240.5	240.8	242.5	243.2

1/ Seginning January 1987 the CPIs are calculated using 1982-84 expenditure patterns and updated population weights. The old series were based on 1972-73 expanditure patterns. 2/ Seef. veal. lamb, ponk, and processed meet. 3/ Includes butter. 4/ Excludes butter. 5/ December 1977-100.

Information contact: Ralph Parlett (202) 786-1870.

May 1987

Table 7. -- Producer price indexes, U.S. average (not seasonally adjusted)

		Annua1				1986			16	987
	1984	1985	1986 P	Feb	Sept	Oct R	Nov	-peċ	Jan	Feb
					1967=1	00				
Finished goods 1/	291.1	293.7	289.6	291.9	287.3	290.7	290.7	269.9	291.7	292.
Consumer foods	273.3	271.2	278.0	272.0	262.9	283.6	283.0	282.9	280.0	279.0
	253.0	256.1	262.1	251.6	273.9	308.5	271.0	271.1	255.1	260.0
Fresh & dried vegetables	278.3	245.1	241.1	203.7	243.6	249.6	262.5	251.9	226.9	219.
Product Services	306 6	363.5	377.4	369.2	377.9	383.2	387.3	384.8	383.6	384.1
	312.4	323.1	315.1	313.4	311.0	310.9	314.0	320.5	322.1	321.
	351.0	362.3	314.0	319.7	310.8	315.6	320.0	325.1	333.4	333.
Freen veg. excl. potetoes	219.1	205.9	204.0	169.6	202.4	204.3	214.1	206.1	174.9	167.
Canned veg. and juices	252.6	246.9	245.1	243.6	248.2	243.5	245.3	246.8	246.4	247.
Frozen vegetebles	291.0	298.4	298.5	299.0	298.4	297.0	297.8	298.4	300.3	300.
Potatoes	397.7	304.3	312.6	267.5	33O.0	353.3	374.1	350.5	367.2	359.
Eggs	210.8	171.0	177.9	176.0	101.1	173.5	197.4	194.0	176.9	175.
Bakeny ProductS	299.1	313.7	321.3	319.5	323.1	322.6	322.5	321.1	322.2	320.
Meats	236.8	227.8	235.2	223.1	251.9	246.7	244.0	243.6	238.2	237.
Seaf & vest	237.1	221.3	216.0	212.6	219.0	221.2	223.5	219.8	217.1	222.
Ponk	226.5	223.0	250.9	221.3	291.5	272.1	259.4	263.4	250.4	238.
Pork Processed poultry Fish Datry products	206.0	197.3	207.8	188.5	223.0	233.7	213.3	200.5	194.6	189.
Fieh	476.0	484.2	530.4	527.9	527.5	526.2	544.1	569.4	604.7	632.
Dairy products	251.7	249.4	248.8	246.2	250.3	252.0	253.5	254.4	253.9	252.
Processed fruits & vegetables	294.3	296.3	287.9	287.0	288.4	287.0	289.4	292.0	293.9	294.
Shortening & cooking 011s	311.6	290.6	242.4	254.0	231.6	238.6	241.3	236.3	239.8	240.
Consumer finished goods less foods	294.1	297.3	283.4	291.6	277.4	281.0	281.1	279.9	284.5	2B6.
Bevarages, alcoholic	209.8	213.0	217.8	216.7	218.1	219.0	218.0	210.3	217.5	218.
Soft or Inka	340.2	343.6	349.7	348.9	346.9	351.2	351.0	351.6	351.B	354
apparel	201.3	204.1	206.5	205.6	206.8	207.1	207.4	206.7	207.5	207.
Footwear	251.7	256.7	261.6	260.4	262.1	263.4	263.5	263.8	264.6	263.
Tobacco Products	398.4	428.1	460.4	451.5	469.2	469.3	469.3	469.3	487.1	487.
Intermediate Materiela 2/	320.0	318.7	307.6	313.5	306.1	304.8	304.9	305.0	307.1	308.
Materials for food manufacturing	271.1	258.8	250.9	249.2	254.3	253.9	253.2	253.0	251.0	250.
Flour	185.2	163.0	173.4	182.9	162.3	165.1	164.4	164.5	164.6	168.
Refined Sugar 3/	173.5	165.6	166.4	165,1	167.5	168.4	168.6	169.1	169.2	169.
Cruge vegetable oils	262.2	219.6	135.0	153.8	121.6	119.0	124.2	122.8	127 . 1	128.
Crude materiele 4/	330.8	306.1	280.0	289.0	275.4	277.2	278.4	274.8	284.0	288.
Foodstuffe & feedstuffe	259.5	235.0	230.6	227.2	233.5	235.0	235.9	232.8	227.1	229.
Fruite & vegetables 5/	278.1	260.5	261.2	234.6	268.1	287.6	277.7	271.6	249.7	247.
Grains	239.7	202.B	167.2	193.6	132.6	134.9	146.3	149.7	140.9	140.
LiveStock	251.8	229.9	236.1	226.1	253.1	247.3	247.1	244.5	238.3	245.
Poultry, 11ve	240.6	226.2	248.0	197.4	279.5	314.0	250.9	219.7	212.3	199.
Fibers, Plant & enimal	228.4	197.8	179.3	198.4	107.9	150.8	154.0	176.7	192.3	188.
Fluid nilk	278.3	264.6	256.9	254.7	258.6	266.6	270.4	271,4	271.5	267.
Oilseeds	253.3	202.7	196.2	187.1	187.2	183.6	208.9	196.3	202 . 1	201.
Tobacco, leaf	274.6	274.1	243.0	255.5	239.6	229.1	230.8	230.8	229.1	230.
Sugar, raw cane	312.0	291.3	292.2	288.0	293.2	296.9	299.0	294.4	299.7	304 .
411 commodities	310.3	308.7	299.6	304.4	297.5	298.4	298.7	298.1 309.3	300 9 313.6	302. 315.
Industrial commodities	322.6	323.0	312.1	318.9	308.7	309.6	309.8 273.2	273.1	270.0	269.
All foods 6/	269.2	264.6	268.4	262 . B	273.2	274.0	213.2	2/3.1	270.0	203.
Farm products 8				0.15	00.0	35 - 0	355 3	254.6	251.5	251.
processed foods & feeds	262.4	250.5	252.0	248.3	254.0	254.8	255.2		231.5	221.
Farm products	255.B	230.5	224.7	221.B	224.1	227.4	229.3	226.8	267.0	267.
Processed foods & feeds 6/	265.0	260.4	265.1	261.4	269.0	268.4	267.9	268.4	267.0	
Careal & bakery Products	270.5	279.9	281.8	203.3	280.5	280.7	280.4	280.6		280.
Careal & bakery products Sugar & confectionery 8everages	301.2	291.0	295.7	292.4	297.6	299.1	299.6	299.7	298.0	297. 289.
Severaces	273.1	276.6	294.3	294.1	292.1	293.3	292.5	292.8	289.4	203.

<sup>1/</sup> Commodities ready for sale to ultimate consumer. 2/ Commodities requiring further processing to become finished goods. 3/ All types and sizes of refined Sugar. (Dec. 1977=100). 4/ Products Entering market for the first time which have not been manufactured at that point. 5/ Fresh and dried. 6/ Includes all raw, intermediate, and processed foods (excludes soft drinks, sicoholic bevarages, and manufactured animal feeds). (1977=100). R = revised. P = preliminary.

Information contact: Sureau of Labor Statistics (202) 523-1913.

Table 8. - Farm-retail price spreads

			nue 1				1986				1987
	1003	1964	1985	1986	Feb	Sept	Oct	Nov	Dec	Jin	Feb
Market basket 1/											
Estail cost (1867-100)	268.7	279.3	242.6	266.7	244.2	293.1	293.3	293.9	294.0	296.3	299.1
Farm velue (1867+100)	242.3	268.4	237.2	234.1	223.7	245.9	244.7	244.6	241.3	232.0	233.5
Fore-retell apred (1967-100) Fore velue/retail cost (g)	284.3	203.3	309.3	320.8	319.0	320.8	321.9	322.8	376.5	337 3	337.6
West Products	23.4	33.6	31.1	30.0	29 . 1	31.1	30.9	30.6	30.3	28.8	28.9
RETET! COUT (1867+100)	267.2	268.1	265.5	273.9	268.4	283.6	263.9	265.4	286.3	288.3	285.3
Ferm vetue (1867+100)	235.8	241.6	221.5	229.1	216.0	252.0	240.9	240.6	240.0	223.0	231.2
Fers-retell spreed [1867+100]	304.0	299.1	316.6	326.2	327.5	319.7	334.2	337.8	340.5	363.0	348.6
Fors velue/retell cost (%)	47.6	40.6	46.1	45.1	43.0	48.1	45.6	45.5	45.2	41.0	43.7
#1Py Products metell cost (1967=100)	250.0		250.0		25.0.0			*** *			
Ferm velue (1867-100)	262.1	253.2 258.6	25a.0 24a.2	258.4 241.5	257.3 237.6	258.5 243.8	260.0 250.4	261.2 251.9	262.2 254.4	263.2 252.0	264.3 253.6
Fars-reteil spread (1867=100)	238.3	240.3	266.5	273.3	274.6	271.4	268.5	269 3	269.0	273.0	273.7
Fare velue/ratell cost (%)	49.0	47.4	45.0	43.7	43.2	44.1	45.0	45.1	45.4	44.8	44.9
oultry											
Retell cost (1967-100)	167.6	210.9	216.4	232.7	218.5	249.5	247.8	245.2	241.9	236.3	237.0
Form valum (1867-100) Form-retell mormed (1867-100)	213.0	249.8	1234.0	255.4	212.5	282.2	300.4	266.6	228.4	221.7	216.7
Ferm value/rate11 comt (%)	182.4	100 . I 55 . 3	198.4 53.4	210.9 54.0	224.3 47.6	217.6 55.6	196.9 59.6	224.5 53.5	255.0 46.4	254.4	256.6 45.0
gg II		DW. 0	93.4	94.0	47.0	35.4	33.0	33.9	46.4	45.8	43.0
Retell cost (1967=100)	107.1	208.0	174.3	186.3	186.7	186.0	186.2	195.8	198.6	193.5	187.2
Fere value (1867=100)	206.1	230.3	176.9	192.7	192.1	198.3	179.9	214.3	208.8	184.4	179.2
fere-retel  spread (1967=100)	159.5	170.2	167.6	177.1	170.9	168.3	195.3	169 0	143.9	206.5	196.8
Ferm value/ratail cost (%) ermel & bekery products	85.1	65.1	60.7	61.1	60.8	63.0	57.1	64.7	62.1	56.3	56.6
Retail cost (1867-100)	292.5	208.3	317.0	325.0							
Fare value (1867-100)	106.6	192.0	175.0	142.3	322.5 162.3	320.5 121.7	328.4 124.8	328.5 125.7	329.5 127.0	331.2	332.3 128.6
Ferm rate11 spread (1967=100)	314.0	326.7	346.2	363.7	355.7	371.3	370.5	370 5	371.4	373.2	374.5
	11, 1,	10.0	8.5	7.5	0.6	6.4	6.5	6.6	6.6	6.7	6.6
rman lewith											
lete11 cost (1967-100)	303.6	345.3	363.5	390.1	372 1	407.7	388.2	381.6	379.4	412.2	427.1
Fare value (1967-100)	220.5	315.1	302.7	285.3	269.6	291.4	303.1	305.6	309.5	283.0	289 B
Fare-retall Spread (1867-100) Fere value/retail cost (%)	340.8	35a.9 20.3	419.8	437.1 22.7	418.0	459.9 22.†	440.9	415.7	411.3 25.2	470.2	488.7
resh vegetables	22.0	20.3	24.4	22.7	22.5	44.1	23.6	24.8	20.2	21.3	21.0
letail costs [1967=100]	299.3	331.0	317.5	330.3	311.1	321.0	328.8	338.9	342.5	355.4	374.4
Ferm velue (1967=100)	267.4	298.7	256.7	247.6	179.0	267.0	273.3	299.4	240.0	310.8	266.9
	314.3	347.4	346.1	369.2	373.2	346.4	354.9	357.5	390.3	376.3	425.0
Farm velue/retell cost (%)	26.6	26.0	25.0	24.0	18.4	266.0	26.6	28.2	27.0	28.0	22.8
rocessed fruits & vegetables Reteil coet (1967-100)	216.6	306.1	214.1			007.0		200 4			
	300.5	343.5	378.5	309.1 326.3	311.6 330.5	307.3	306.6 332.5	306.8 332.1	308.8	314.4 358.7	313.0
Fere-retail sormed (1967=100)	216.2	397.0	299.9	305.3	307.4	305.5	300.9	301.3	300 . 9	304.6	303.0
	10.8	20.3	21.0	19.1	19.2	14.6	19.7	19.6	20.2	20.7	20.8
ete 6 olis											
	263.1	284.0	294.4	287.8	291.4	285.6	284.6	285.4	286.0	293.4	289.9
	251.0	324.6	271.3	199.1	215.4	178.7	186.2	181.5	184.1	198.9	189.0
Farm-reteil Spreed [1967+100] Fere velue/rateil cost (%)	267.8	273.0	303.3 25.6	321.9 10.4	20.5	326.7 17.4	322.5 (8.2	326.3 17.7	325.2 17.9	329.8 18.8	328.7
and version rate ( Cost ( g)	24.5	31.9	20.8	10.4	20.5	17.9	14.2	11.7	17.7	10.0	10.1
			nuii1				1986				1987
	1983	1984	1985	1986	FIID	Sept	Oct	Nov	Dec	Jan	Feb
Beef. Choice											
Reteil price 2/ (ct6/1b)	230.1	239.6	232.6	230.7	232.5	231.0	231.2	233.0	234.8	236.6	233.6
Net carcass value 3/ (cts)	145.4	147.6	135.2	133.1	130.0	135.6	137.1	141.7	136.3	134.0	137.5
Net fare value 4/ (cts)	136.2	140.0	126.8	124.4	121.0	129.0	128 9	134.4	128.3	125.7	131.1
Farm-retail aprend (cts) Carcess-retail Aprend S/ (cts)	101.9	99.6 92.0	97.4	87.6	111.5	95.2	102.3	99.7 92.1	106.5 98.5	110.9	101.5
Fors-Carcoos sormed 5/ (cts)	8.2	7.8	6.4	6.7	9.0	6.8	0.2	7.6	8.0	102.6	5.1
Fars velue/retell price (%)	67	50	55	54	52	56	56	57	55	53	56
nr k					-				_		
Retail orice 2/ (cts/ib)	169.4	162.0	162.0	178.4	168.3	194.4	194.9	192.5	191.3	108.1	185.6
wholesale selue 3/ (cts) Net form value 4/ (cts)	100.8	110.1	101.1	110.9	95.7	127.3	118.5	118.4	113.5	105.4	103.6
Farm-retail apreed (cts)	76.5	77.4 84.6	71.4 90.6	82.4 96.0	69.5 98.8	95.7 98.7	86.7	46.1	#f - 4	78.7	77.4
	73.3						108.2	106 · 4	109.9	112.4	107.8
	60.9	81.0	60.4	67.5	72.6	67 (	74 4	74 4	77 4	82.7	
Wholesele-rettil Spread 5/ (cts) Fere-wholesele Spread 6/ (cts)	60.9 32.4	81.9 32.7	€0.8 29.7	67.5 28.5	72.6 26.2	67.1 31.6	76.4 31.6	74.1 32.3	77.6 32 1	#2.7 29 7	81.8 26.0

If Retail costs are based on indexes of retail prices for domestically produced farm foods from the CPI-U published monthly by the Surses of Labor Statistics. The farm value is the payment to farmers for quentity of farm product equivalent to retail unit. Lass ellowence for ByDroduct. Ferm values are based on prices at first point of sals and may include marketing charges such as grading and packing for some commodities. The farm-rated spread, the difference between the retail price and the farm value, represents charges for seembling, processing, transporting, and distributing these foods. 2/ Estimated weighted average price of retail dute from pork and choice yield grade 3 beef carcasses. Betail cut prices from 815. 2/ Value of carcass quantity (beef) and wholesele cuts (pork) equivalent to 1 to, of retail cuts; beef adjusted for value of fat and some byproducts. 4/ Market value to producer for quantity of live sinues devivelent to 1 to 7 retail cuts sinus value of byproducts. 5/ Represents charges for retailing and other marketing services such as fabricating, wholeseling, and in-City transportation. 6/ Represents charges made for livestock marketing, processing, and transportation to city where consumed.

Note: Annuel historical data on farm-reteil price apreads may be found in Food Consumption. Pricemeand Expanditures. Statistical Bulletin 736, E85, USDA.

Information Contects: Dents Dunham (202) 786-1870: Ron Gustafson (202) 786-1890.

Table 9.-Price Indexes of food marketing costs

(See the March 1987 issue.)

Information contact: Denis Dunham (202) 786-1870.

Table 10.-U.S. meat supply and use

		Pro-					Mili-			illan umption	0=4
1 ton	ēmg. Stko	1/ 1/	lm- Porte	Total supply	Ex- ports	Ship- ments	sump- tion	Ending Stocks	Totel	Per capita 2/	Primery merket price 3
					Million	Pounds 4	1/	~=~~~		Pounds	
Beef:											
1984	325	23,598	1.823	25.746	329	47	112	358	24.900	78.5	65.34
1965	350	23.728	2.071	26.157	328	51	115	317	25.346	79.1	58.37
1946	317	24,371	2.101	26.789	507	52	110	311	25,809	79.8	57.75 61-65
1987 F	311	22,948	2.150	25.409	525	60	110	325	24.389	74.7	61-63
Ponk:						4.47					48.86
1904	301	14.812	954	16.067	164	147	86 70	274	15.396 15.651	61.8 62.1	46.77
1985	274	14.807	1.128	16,209	158	131		229	14,912	58.6	51.19
1986	229	14.063	1.107	15.399	85	132	73	197			44-48
1987 F	197	14,615	1.100	15.912	100	140	80	225	15.367	59.8	44-46
Vea1:		a mair	24	528	61	1	4	14	503	1.6	60.24
1944	9	495	_		4	- 1	7	11	526	1.8	62.42
1985	14	515	20	549	5	1	6	7	543	1.9	50.89
1986	11	824	27 25	562	4	1 1 <sub>r</sub>	7	ź	46B	1.6	67-71
1987 F	7	455	43	487	•	1,	,	.*	480	1.0	01-11
Lemb end mutton:	11	379	20	410	2.	3	0	7	398	1.5	62.18
1984	7	350	36	401	í	- 2	ŏ	13	385	1.4	68 61
1985	13	330	39	390	i	1	ŏ	12	375	1.4	69 46
1986	12	317	40	369	2	- 1	ŏ	8	358	1.3	74-78
1987 F	12	317	40	203	•	•	•	ь	950	*	74 15
Total red mest:	646	39.284	2,021	42,751	501	196	202	653	41.197	143.6	NA
1985	653	39.408	3.255	43,316	461	185	192	570	41,908	144.5	NA.
1966	570	39.296	3,274	43,140	598	187	189	527	41.639	141.6	NA
1987 F	627	38.090	3.315	42,177	631	202	197	565	40,582	137.4	NA.
Broilers:	441	30.000	3.313	461177	Series 1	202	131	540	441000	107.4	145
1984	21	13.016	0	13.038	407	145	34	20	12,432	52.9	55.6
1885	20	13.762	ŏ	13,781	417	143	34	27	13, 161	55.5	50.8
1986	27	14,450	ŏ	14.477	554	149	15	24	13,715	57.3	56.9
1987 F	24	15,476	ŏ	15,500	700	140	36	25	14.599	60.4	49-53
Matura Chicken:	24	10,474	•	.131300	, 00	140	40	-	141000		10
1984	82	672	0	764	26	2	2	119	615	2.6	NA
1985	119	636	ŏ	755	21	ī	2	144	587	2.5	NA
1986	144	671	ŏ	815	16	i	2	163	63 t	2.6	NA
1987 F	163	640	ŏ	803	20	41	1	130	648	2.7	NA
Turkeys:		-	•			-					
1984	162	2.685	0	2.847	27	7	13	125	2.676	11.4	74.4
1985	125	2,942	ŏ	3.067	27	7	13	150	2.870	12 1	75.5
1986	150	3,287	Ö	3.437	25	36	10	178	3.220	13.4	72.2
1987 F	170	3.799	Ö	3.977	25	4.	16	150	3,772	15.6	64-68
Total poultry:	***		•			r.					
1984	275	16.373	0	16,648	460	153	49	264	15.722	66 9	NA.
1965	264	17,339	Ö	17.604	465	151	49	321	16.618	70.1	N≜
1986	321	18,406	0	18.729	595	156	47	365	17.565	73.4	NA
1987 F	365	19.915	Ö	20.280	745	148	50'	305	19.029	78.7	NA
Red ment & poultry:											
1884	921	55,657	2.821	59,399	96 t	351	251	917	56.919	210.5	NA
1985	917	56.747	3.255	60.920	926	336	241	891	58.526	214.6	NA.
1986	891	57,704	3,274	61.869	1, 193	343	236	892	59.205	215.0	NA
1987 F	892	58,520	3,315	62.457	1,376	350	250	870	59.611	216.0	NA.

1/ Total including farm production for red weets and Federally inspected plus non-federally inspected for poultry 2/ Retail weight basis. 3/ Dollars per cut for red weets cents per gound for poultry. Beef: choice eleers. Omeha 900-1,100 lbs.; pork: berrows and gilts. Therefore; west: farm price of Calves; lamb and mutton: choice slaughler lambs, San Angelo; broilers: wholesale 12-city everage; turkeys: wholesale NY 8-15 tb, young hens. 4/ Carcass weight for red weets and cartified ready-to-cook for poultry.

NA = not available. F = forecast.

Information contact: Ron Gustafson, Leland Southard, or Allen Baker (202) 786-1830.

Table 11.-U.S. egg supply and use

		Pro-					M131-	Hatch-			ilian mption	
	8eg. etocke	duc- tion	Im- porta	Total supply	Ex- ports	Ship- ments	tary use	ing use	Ending etocks	Total	Per capita	Wholessle Price*
					M1771	on dozen					No	Cts/doz
1982 1983 1984 1985 1986 1987 F	17.5 20.3 9.3 11.1 10.7 10.5	5.801.9 5.659.2 5.708.2 5.688.4 5.715.0 5.765.0	2.5 23.4 32.0 12.7 13.6 12.0	5,821.8 5,703.0 5,749.5 5,712.2 5,739.4 5,787.5	158.2 85.8 58.2 70.6 101.0 100.0	26.7 26.6 27.8 30.3 28.0 24.0	22.4 25.1 17.6 20.2 17.5 20.0	505.6 500.0 529.T 548.1 565.5 600.0	20.3 8.3 11.1 10.7 10.4 10.0	5.088.6 5.056.2 5.105.1 5.032.2 5.017.0 5.033.5	265, 1 260, 8 260, 9 254, 7 251, 5 249, 9	70.1 75.2 80.9 66.4 71.1

<sup>\*</sup> Cartoned Grade A large eggs in New York. F \* forecast.

Information contact: Allen Baker (202) 786-1830.

Table 12.-U.S. milk supply and use1

			Commer	rcia)		Total		Comme	rcial	A11
Calendar year	Pro- duc- tion	Farm use	Farm market- ings	Beg. stocks	Im- ports	commer- ctal supply	ccc net re- movals	Ending stocks	Disap- pear- ance	milk price 2/
				Bf	liion poun	ds				\$/cwt
1980	128.4	2.4	126.†	5,4	2.1	133.6	8.8	5.8	119.0	13.05
1981	132.8	2.3	130.5	5.8	2.3	<b>138</b> .5	12.9	5.4	120.3	13.77
1982	135.5	2.4	133.1	5.4	2.5	141.0	14.3	4.6	122 . 1	13.61
1983	139.7	2.4	137.3	4.6	2.6	144.5	16.8	5.2	122.5	13.58
1984	135.4	2.9	132.5	5.2	2.7	140.5	8.6	4.9	126.9	13.46
1985	143.1	2.5	140.7	4.9	2.6	148.4	13.2	4.6	130.6	12.75
1986 P	144.1	2.3	141.8	4.6	2.7	149.0	10.6	4.2	134.2	12.48
1987 F	141.5	2.3	139.2	4.2	2.7	146.1	5.5	4.4	136.2	12.50

i/ Milkfat basis. Totals may not add because of rounding. 2/ Delivered to plants and dealers; does not reflect deductions. P = preliminary. F = forecast.

Information contact: Wim Miller (202) 786-1830.

Table 13.—Poultry and eggs

	1	Annual				1986			19	187
	1964	1985	1986	Feb	Sept	Oct	Nov	Dec	J⊕n	Feb
Broilers										
Federally inspected										
eleughten, centified (eil lb)	12,998.6	13,569.2	14.265.6	1.087.0	1,241.6	1,255.7	1,050.4	1,252.2	1,275.3	1,155.6
Mhol4sala Price.										
12-city, (cte/1b)	55.6	50.8	56.91	49.0	61.0	62.5	57.5	50.0	51.a	49.8
Price of prover feed (\$/ton)	233	197	NA.	189	. NA	177	NA NA	NA.	174	NA.
Broiler-feed Drice ratio 1/	2.0	3.1	NA.	3.1	NA	4.6	NA.	NA.	3.6	NA.
Stocks beginning of period (mil 1b)	21.2	19.7	26.6	26.6	24.3	26.0	25.5	22.5		27.2
Broller-type chicks hatched (Mil) 2/		4,803.8		364.5	380.1	382.6		416.5	23.9	
Turkeys	41000.0	41002.0	3,000.0	364.5	300.1	302.9	379.1	416.3	439.6	406.2
Federally imprected slaughter,										
certified (mil lb)	2.574	2,800	3, 132	174.6	200 4					
Wholdeale price, New York, 8-16 1b.	8,314	2,000	3,132	174.0	332.4	364.8	307.1	248.0	215.4	211.8
young hene (cte/lb)	74.4	75.5	72.2	64.5						
Price of turkey grower feed (\$/ton)	245	212	NA.	61.7	81.2	83.2	BO.7	71.1	55.3	58.5
TurkBy-Feed Price ratio 1/	3.8	4.4	NA NA	211	NA	215	NA	NA	210	NA
		125.3		3.5	NA	4.9	NA	NA	3.3	NA
Stocks beginning of period (mil 16) Poults Placed in U.S. (mil)	161.8	123.J 197.8	150.2	156.8	449.3	511.6	543.3	249.6	178.6	198.3
Poults pieced in U.S. thill	190.0	197.0	225.4	19.6	13.6	14.2	13.8	17.7	21.1	21.0
Eggs										
Farm Production (mil)	68,498	68.261	68.590	5,302	5.548	5.797	5.729	5.960	5.920	5.350
Avarage number of layers (mit) 3/	278	277	278	233	229	231	233	235	237	236
Rate of lay (aggs per layer			-10			201	- 30	203	431	230
on Farms) 3/	245	247	247	19.0	20.3	20.9	20.5	21.3	20.9	19.0
Cartoned Price, New York, grade A			441	13.0	20.0	40.5	20.3	21.3	20.8	19.0
large (Cta/doZ) 4/	80.8	66.4	71.1	68.3	72.6	69.6	77.2	75.5	67.1	65.2
Price of laying feed (\$/ton)	206	182	NA	179	NA.	166	NA.	NA.	164	NA.
Egg-feed Price ratio 1/	6.8	6.3	NA.	6.9	NA.	7.0	NA	NA.	7.2	NA.
The state of the s	0.0	0.5		9.0	MA	1.0	Edin	PIA,	1.2	N/A
Stocke, first of month										
Shell (#11 doz)	. 39	.90	3 .72	.84	. 99	. 67	. 66	.87	. 66	, 60
Frozen (mil doz)	8.9	10.2	10.0	9.6	11.4	10.6	10.6	9.9	9.8	10.9
Replecement chicks hatched (mil)	458	407	425	28.4	33.6	33.6	33.6	34.6	34.2	35.2

1/ Pounde of feed equal in value to i dozen eggs or 1 lb. of broiler or turkey livewaight. 2/ Placement of broiler chicks are currently reported for 12 states only; henceforth, hatch of broiler-type chicks will be used as a substitute. 3/ Monthly data only swalleble for 20 states. 4/ Price of cartoned eggs to volume buyers for delivery to retailers. NA = not available.

Information contact: Allen Baker (202) 786-1830.

		Annua1				1986				1987
	1984	1985	1986	Feb	Sept	Oct	Nov	Dec	dan	Feb
Milk prices, Minnesota-Wiaconsin.										
3.5% fet (\$/cvt) 1/	12.29	11.48	11.30	11.04	11.55	11.69	11.91	11.88	11.70	11.27
Wholeasle Prices										
Butter, Grade & Chi. (Cte/1b)	148.8	141.1	144.5	138.7	154.2	153.5	151 9	145.5	137.3	136.7
AM, CheBuB, Mis.										
assembly pt. (cts/lb)	138.0	127.7	127.3	124.5	129.7	130.2	133.4	130.4	127.7	122 5
Nonfet dry milk. (cts/1b) 2/	90.9	84.0	80.6	80.1	80.6	81.2	82.0	81.4	82.0	79.0
USDA net removals										
Total milk equiv, (mil lb) 3/		13,174.1		2.250.1	172.2	90.1	7.7		1.201.3	862 8
Butter (011 1b)	202.3	334.2	287.6	79.8	5	7.1	-1.6	9 6	45.1	31.1
An, Cheese (mil 1b)	447.3	629.0	468.4	60.5	17.9	8.7	3.0	19.0	26.7	21.8
Nonfet dry milk (mil 1b)	678.4	940.6	627.3	100.0	41.0	22.3	24.3	46.8	49.9	41.2
M11k										
	114.545	121.043	122, 185	9.565	9,662	9.732	9.400	9,717	9,932	9.279
Milk per cow (1b)	12,691	13,160	13,445	1.028	1,080	1.090	1.056	1.095	1,123	1.052
Number of milk cous (thou)	9,026	9.198	9,088	9.303	0.950	8,932	8,900	8.873	8.845	8,818
U.S. milk Production (mil 1b)	135.450	143,147	144,080	6/11.322	6/11,361	6/11,460	6/11.057	6/11,430	6/11.675	6/10.925
Stock, beginning										
Total (mil 16)	22.646	16.704	13,695	13.646	17,169	16.022	15,089	13.994	12.867	12.939
Commercial (mil lb)	5.234	4,937	4,590	4,760	5.348	5,114	4.823	4.342	4,165	4,480
Government (mil 1b)	17,412	11.767	9,105	9.230	11,822	10.907	10,266	9,652	8.702	8.459
Imports, total (mil lp) 3/	2,741	2,777	2,676	179	214	273	277	266	234	NA.
Commercial disappearance										
milk equiv. (mil 1b)	126,912	130,630	134,233	8,921	11,447	11.737	11,617	11.286	10, 196	N≜
Butter										
Production (mil lb) Stocks. beginning (mil lb) Commercial disappharance (mil lb)	1,103.3	1,247.8	1.207.6	119.4	79.2	84,6	84.0	100.9	109.2	97.8
Stocke, beginning (mil 1b)	499.4	296.5	205.5	206.3	304 4	279.6	253.3	216.5	193.0	202.6
Commercial disappearance (mil 1b)	902.7	918.2	928.0	34 . 9	80.8	83.3	95.1	93.9	59.0	NA
American chasss										
Production (mil ib) Stocke, beginning (mil ib)	2,648.5	2.854.4	2.834.3	227.2	201.7	207.1	195 5	222.9	219.5	211.2
Stocke, beginning (mil 1b)	1,161.5	960.5	850.2	810.8	927.5	866.9	819.3	770.8	697.1	674.2
Commercial disappearance (mil 1b)	2,253.6	2,278.3	2.417.6	164.4	205.2	224.4	216.9	215.5	179.1	NA
Other cheese										
Production (mil 1b)	2,025.5	_ ,	2,391.5	171.6	2 + 3 . 1	218.3	202.1	212.9	194.0	169 7
Stocke, beginning (mil 1b)	104.9	101.4	94 †	93.6	100.2	99.1	93.8	91.5	92.0	93.5
Commercial disappearence (#11 1b) Nonfet dry #11k	2,310.9	2.460.5	2,662.0	189.5	238.0	251.8	236.1	242.3	206.5	NA
Production (mil 1b)	1,160.7	t.390.0	1,297.8	114.7	75.2	68.7	68.2	90.4	62.1	80.3
Stocke, beginning (mil 1p)	1,405.2	1,247.6	1,011,1	961.4	934.4	844.9	793.4	742.6	686.8	596,6
Commercial disappearance (et) 1b)	497.6	435.0	492.9	20.0	47.3	58.6	40.2	29.8	34.8	NA.
Frozen dessert										
Production (811 ps) 4/	1,241.8	1,249.0	1,273.6	87.2	107.0	99.1	81.4	81.7	79.9	90.0
		Aranua 1	.,	1	985		1	986		1987
	1984	1965	1986	III	IV	I	II	111	IV	I P
MAN (-41 1-)					-	36, 172		35,610	33.947	34.700
Milk production (mil 1b)	135.450			36.685	35,424		38.350	3,327		3,310
Milk per cow (1b)	12.506	12,994	13,293	3.305	3, 174	3,251	3.505		3.206	10.460
No. of milk cowe (thou)	10,833	11.016	10.839	11,099	11,162	11,126	10.943	10.703	10.583	
Milk-feed Price ratio 5/	1.59									
Returns over concentrate 5/ coste (\$/cwt eilk)	9.52	9.54	9.20	9.13	9.61	9.37	8.50	8.88	10.05	9.90

1/ Manufacturing grade wilk. 2/ Prices paid f.o.b. Central States production area, high heat apray process.
3/ Milk-squivalent, fat-basis. 4/ Ice Cream, ice wilk, and hard sharbet. 5/ Based on average milk price after adjustment for price-support deductions. 6/ Estimated. P = preliminary. NA = not available.

Information contact: Jie Miller (202) 786-1830.

Table	151	Wool
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		Annue 1					1987			
	1984	1985	1986	Feb	Sept	Oct	Nov	Dec	Jan	Feb
U.S. vool price. Boston 1/ (cts/lb)	229	192	191	189	190	190	190	190	193	202
Imported wool price, Boston 2/ (cts/1b)	241	197	201	202	184	190	199	208	211	212
U.S. mill consumption, ecourad Appermit wool (thou lb) Corpet wool (thou lb)	128,982 13,086	106,051	134,989	11.126 798	9,956 982	11,820	9.947 760	10.788 567	11,053 728	12, 103 013

1/ Wool price delivered Bt U.S. mills, clean basis, Graded Territory 64's (20.60-22.04 microns) staple 2-3/4' and up. 2/ Wool price delivered Bt U.S. mills, clean basis, Australian 60/62's, type 64A (24 micron). Outy since 1982 has been 10.0 cents.

Information contact: John Lawler (202) 786-1840.

Table 16. - Meat animals

		Annual				1986			19	167
	1984	1985	1986	Feb	Sept	Oct	Nov	Dec		f ab
	1001	1000	1000	1,00	250	00.0	1404	DEC	Jan	Feb
Cattle on feed (7-States)										
Number on feed (thou head) 1/	8.006	0.635	7,920	7,322	6,404	6.011	7.546	7.826	7,633	7.128
Placed on feed (thou heed)		10,346	20,005	1.220	2.103	2,403	1,014	1.405	1,561	1,407
		18.989	19.243	1.470	1.637	1.587	1.447	1,494	1,773	1,463
Other disappearance (thou head)	1,376	1,132	1,049	92	59	81	87	104	127	110
Beef Steer-corn Price ratio.	24.6	22.2	1		40.4					
Onaha 2/	21.6						40.3	30.9	40.5	44.0
Hog-corn price ratio, Gmaha 2/	16.1	17.8	27.8	\$ 19.0	42.9	39.0	35.6	33.4	32.7	35.1
Market Prices (\$ per cwt)										
Slaughter cattle:				15						
Choice Stears. Omaha	65.3									
Utility cows. Omaha Choice vealers, S. 5t. Paul	39.0 63.9									
Faeder Cettle:	63.3		8 59.9	92 52.5	0 67.5	0 67.50	67.50	67.50	65.94	68.28
Choice, Kensas City, 600-700 lb	. 65.2			to co. 4	2	0 65 40				
Slaughter hoge:	. 65.2	8 64.5	0 02.1	79 62.4	2 65.5	0 65.10	64.13	65.00	69.00	71.38
Barrows & gilts, 7-markets	48.8	6 44.7	7 51.1	. 42 6	E 50 0	4			47.00	
Feeder pigs:	40.0	0 44.7	, 31.	19 43.5	5 59.0	1 54.21	53.62	51.42	47.39	40.73
S. Mo. 40-50 lb. (per head)	39.1	2 37.2	0 45.6	37.2	6 59.6	3 52 00	50.00	47 65	49.00	55.00
Slauphter sheep & lembs:	38.1	2 31.2	V 45.6	37.2	0 39.0	3 53.23	50.00	47.69	47.00	53.96
Lambs, Choics, Sen Angelo	62.1	8 68.6	1 69.4	16 67.5	0 66.3		65.45	30.00	70.55	
Ewes, Good, Sen Angelo	20.9									
Feeder lamos:	20.8	0 34.0	2 34.1	31.0	8 29.3	8 36.85	37.56	38.00	39.61	41.25
Choice, Sen Angelo	61.0	2 85.9	1 73.1	14 75.1	2 83.8	0 94 45	-0.50		05.00	
Wholesale mest Prices, Midwest	41.0	2 03.3	1 73.1	73.1	2 63.6	8 81.45	83.50	89.92	95.88	99.50
Choice steer beef, 600-700 jb.	98.0	1 90.7	6 88.5	86.8	2 20 6	0 00	05 10	80.04	60.70	04.60
Canner & Cutter cow beef	74.7				,					
Pork loins, 8-14 lp. 3/	96.3									
Park bellies, 12-14 lb.	60.0									
Hams, skinned, 14-17 lb.	78.2									
	10.2		0 80.0	/1 63.0	0 30.5	05.20	109 . 40	01.43	65.75	65.43
Commercial Blaughter (thou head)*										
Cattle	37,582	36,293	37.292	2,715	3,128	3.285	2.819	3.076	3, 199	2,662
Steers		16.912	17.519	1,270	1,499	1,586	1,291	1,399	1,531	1.284
Heifers	10.691	11,237	11.098	851	957	931	792	875	1.005	824
Cows	8.617	7.387	7.960	546	608	463	679	746	608	503
Bulle & stage	789		715	48	64	65	57	56	55	51
Calves	3.297	3.385	3,407	272	281	295	255	289	263	239
Sheep & Tambe		6,165	5,632	452	511	511	413	454	428	400
Hoge		84,492	79,504	6,337	6.502	7,240	6,239	6,792	6,917	6,055
Commercial Production (e/9 1b)				-,	0.000		0,000	0,,02	0,011	01003
Beef	23,418	23,557	24.215	1.769	2.050	2,146	1.80a	1.971	2,102	1.747
Veal	479	499	510	40	43	44	37	41	39	36
Lamb & mutton	371	352	330	27	30	30	24	27	25	24
Pork	14.720	14,728	13.963		1,137	1.279		1.220	1,244	1.070
					-		.,	*******		******
		Annua1		1985		191				67
	1984	1985	1986	IV	1	11	111	IV	I	II
Cattle on Feed (13-States)										
Number on feed (thou head) 1/	9.908	10,653	9,754	7.937	9.754	8,945	7,970	8.197	9,235	
Placed on feed (thou head)	24.917	23,326	23.549	7,365	5,270	5.221	6,336	6.726		
Marketings (thou head)	22,540	22.087	22.836	5,224	5.763	5,821	5.876	5.376		569
Other disappearance (thou head)	1,632	t,398	1,236	324	316	375	233	312		
Hoge # pigs (10-States) 4/	48 4	44 4								
Inventory (thou heed) 1/	42.420	41,100	39.670	41,820	41,100					39.235
Breeding (thou head) 1/	5.348	5,258	5.050	5.377	5,258	4,948	4.840	4,B40	5, 155	5,230
Market (thou head) 1/	37,072	35.842	34,620	36,443	35,842					34.005
Farrowings (thou head) 2.305	9.020	0.831	0.208	2.265	1,863	2,161	2,034	2,150	1,957	5/
Pig Crop (thou head)	CR CAG	67 640	CO 744				45 000			
via cich (flior ussa)	67.680	67,648	63,714	17.255	14,254	16.878	15,853	16.878 1	51.566	

<sup>1/</sup> Beginning of period. 2/ Bushels of corn equal in value to 100 pounds live-weight. 3/ Beginning January 1984 prices are for 14-17 lbs.; January 1986 prices are for 14-18 lbs. 4/ Quarters are Dec of preceding year-Feb. (I), Mar.-May (II), June-aug. (III), and Sept.-Nov. (IV). 5/ Intentions. \*\*Classes estimated. NA \* not evaluable.

Information contact: Ron Gustafson or Leland Southard (202) 786-1830.

Table 17. - Supply and utilization 1,2

		Arma					Fend	Öther				
	5et a610e 3/	Planted	Harves-	Yteld	Production	Total aupply 4/	end resid- uml	tic use	Ex- ports	Total use	Ending atocks	Ferm price 5/
		M#1. scree		Bu/ecre				M11.	bu			\$/bu
Wheat 1981/82												
1982/83 1983/84 1984/85* 1985/86* 1986/87*	0 5.8 30.0 18.6 18.8 20.5	88.3 86.2 76.4 79.2 75.6 72.0	80,6 77,9 61,4 66,9 64,7 60,7	34.5 35.6 39.4 38.6 37.5 34.4	2.765 2.765 2.420 2.595 2.425 2.087	3,777 3,932 3,938 4,003 3,865 4,007	135 195 369 405 273 350	712 713 742 749 771 784	1.771 1.509 1.429 1.424 915 1.025	2.618 2.417 2.540 2.578 1.960 2,159	1.159 1.515 1.399 1.425 1.905 1.040	3,69 3,45 3,51 3,39 3,08 2,30~2,40
Aice	8611	. acres		1b/acre				MIT. CHI	(rough eq	u1v.)		\$/cut
1981/82 1982/83 1983/84 1984/85- 1985/86- 1986/87-	0 0,42 1,74 ,79 1,24 1,26	3.83 3.30 2.18 2.83 2.51 2.40	3,79 3,26 2,17 2,80 2,49 2,38	4,819 4,710 4,598 4,954 \$,414 5,648	102.7 153.6 99.7 130.6 134.9 134.4	199.6 203.4 171.9 187.3 201.8 213.8		6/ 78.1 6/ 62.9 6/ 54.7 6/ 60.5 6/ 65 6 6/ 67.0	7 70.3 62.1 53.7	150.6 131.8 125.0 122.6 124.5	49.0 71.5 46.9 64.7 77.3 66.9	9 05 7 91 8.57 0.04 6.53 3,45-4.25
Corn	M1?	. acres		Bu/ecre				M11. t	u			\$/bu
198 t/B2 1982/83 1983/84 1984/85- 1985/86- 1986/87-	0 2.1 33.2 3.0 5.4 13.0	84.1 81.6 60.2 80.5 83.4 76.7	74.8 72.7 51.5 71.0 75.2 60.2	108.8 113.2 81.1 106.7 118.0 119.3	0,119 0,235 4,175 7,674 8,877 8,253	8.812 10.772 7.700 8.664 10.536 12.285	4,169 4,521 3,818 4,079 4,095 4,500	796 894 875 1.091 1.160 1.180	2.010 1.834 1.901 1.865 1.241 1.375	6.975 7.249 6.694 7.036 6.496 7.055	2.537 3.523 1,006 1.648 4.040 5.240	2.47 2.55 3.21 2.63 2.23 1.35-1.65
Sorghum	MET	9Cr 99		8u/ecre				M11. 6	nu			\$/bu
1981/82 1982/83 1983/84 1983/85- 1985/86- 1985/86-	0 0.7 5.7 .6 .8 2.8	18.9 16.0 11.8 17.3 18.3	13.7 14.1 10.0 15.4 16.8	64.0 59.1 46.7 36.4 66.8 67.7	676 935 488 866 1.120 942	1,006 1,154 927 1,154 1,420 1,483	417 495 385 539 662 550	10 10 10 18 29	260 240 245 287 178 225	687 715 640 854 868 805	319 439 287- 300 551 688	2.25 2.47 2.74 2.32 1.93 1.30-1.50
	M51	. ecre#		Bu/acre				Mil. b	u			\$/bu
Berley 1981/82 1982/83 1983/84 1984/85- 1985/86- 1986/87-	0 0.4 1.1 .5 .7	9.6 9.5 10.4 12.0 13.2	9.0 9.7 11.2 11.6 (2.0	52.4 57.2 52.3 53.4 \$1.0 50.8	474 516 509 598 591 610	621 675 793 799 647 841	198 741 282 304 333 300	175 170 170 170 170 167 175	100 47 92 77 22 150	473 456 544 551 522 625	148 217 189 247 325 316	2,48 2,10 2,47 2,29 1,96 1,45-1,65
	M51	. acree		Bu/ecre				Mil b	u			\$/bu
1981/82 1981/83 1983/84 1983/84 1984/85 1985/86*	0.1 .3 .1 .1	13.6 14.0 20.3 12.4 13.3 14.7	9.4 10.3 9.1 8.2 6.2	54.2 57.8 52.6 58.0 63.7 56.0	510 593 477 474 521 385	669 749 727 689 729 508	453 441 466 433 460 400	77 65 78 74 83	3 1 2 2	537 529 546 509 545 487	152 220 181 180 184 111	1 88 1,49 1,62 1,67 1,23 1,00-1,20
Soybeane	M 1	. acres		8u/ecre				M11, 1	ou .			\$/bu
1981/82 1982/83 1983/84 1984/85- 1985/86* 1986/87*	00000	67.5 70.9 63.8 67.8 63.1 63.1	66.2 69.4 62.5 66.1 61.6 59.4	30 f 31,5 26.2 28.1 34.1 33.8	1,989 2,180 1,636 1,861 2,099 2,007	2.302 2.444 1.981 2.037 2.415 2.563	7/ 89 7/ 86 7/ 79 7/ 93 7/ 86 7/103	1.030 1.108 983 1.030 1.053	929 905 743 598 740 700	2,048 2,099 1,005 1,771 1,879 1,933	254 345 176 316 536 610	6.04 5.69 7.83 5.84 5.05 4.60~4.e0
Soybean oil								M11. 1	ba			0/ n/1b
1981/82 1982/83 1983/84 1984/85- 1985/86- 1986/87-					10.979 12.041 10.872 11.468 11.617 12.263	12,715 13,144 12,133 12,209 12,257 13,210		9,536 9,858 9,588 9,917 10,053 10,500	2,077 2,025 1,824 1,660 1,257 1,350	11,612 11,883 11,412 11,577 11,310 11,850	1.103 1.261 721 632 847 1.360	19.0 20.6 30.6 79.5 16.0 14.5-16.0
Soybean meal								Thou - 1	cons			9/ \$/ton
1981/62 1982/83 1983/84 1984/85- 1985/86- 1986/87-	et end of				24.634 26.714 22,756 24,529 24.951 26,558	24.797 26.889 23.230 24.784 25.338 26.770		17,714 19,306 17,615 19,480 19,090 20,000	6.908 7.109 5.360 4.917 6.036 6.500	24,622 26,415 22,975 24,397 25,126 26,500	175 474 255 387 212 270	183 187 188 125 155 140-150

Table 17.- Supply and utilization, continued

		Area					Feed end	Other domes-				
	Set eeide 3/	Planted	Harves- ted	Yield	Produc- tion	Total supply 4/	resta- ual	tic vae	Ex- ports	Total	Ending etocks	Ferm Price 5/
		011. acres		1b/scre				pri1.	bēles			4/10
Catton 10/ 1981/82 1982/83 1983/84 1984/85* 1985/86- 1986/87-	0 1.6 6.6 2.5 3.6 3.6	14.3 11.3 7.9 11.1 10.7	13.0 9.7 7.3 10.4 10.2 0.5	542 590 508 600 630 549	15.6 12.0 7.6 13.0 13.4 9.7	16.3 18.6 15.7 15.8 17.6		5.3 5.8 5.9 5.5 6.4	6.6 5.2 6.8 6.2 2.0 6.7	11.6 10.7 12.7 11.6 8.4 13.8	6.6 7.9 2.8 4.1 8.4 5.4	55.4 59.5 65.3 58.7 56.8

-April 9, 1927 Supply and Damand Estimates. If Marketing year Deginning June 1 for wheat, bariey, and dats, August 1 for cotton and rice. September 1 for soyosens, corn, and Sorghum, October 1 for soyosens, and soyoil. 2/ Conversion Factors: Hacters (ha.) = 2.471 acres, 1 metric ton = 2204.627 pounds, DE.7437 bushels of wheat or soybeans, DE.3679 bushels of corn or sorghum, 45.9296 bushels of barley, 68.8944 bushels of oats, 27.046 cut, of rice, and 4.59 480-pound belse of cottom. 3/ Includes diversion, PIK, and acreage reduction programs. 4/ Includes imports. 5/ Merket everage prices do not include an allowance for loans dutatending and Government purchases. 5/ Residue) included in domestic uss. 7/ Includes seed. 8/ Average of crude soybean oil, Decatur. 9/ Average of 44 percent. Decatur. HO/ Upland and extra long étaple. Stock settempts based on Census Buresu data which results in an Unaccounted difference between Hoppy and use Estimates and Changes in ending étocks.

Information contact. National Economics Division. Crops Branch (202) 786-1840.

Table 18. - Food grains

		Market	ing year 1	/		198	6		1987		
	1962/83	1983/84	1984/85	1985/86	Feb	Oct	Nov	DeC	Jan	Feb	
iolesale prices											
neat. No. 1 HRW.											
Kanass City (\$/bu) 2/	3.94	3.84	3.74	3.28	3.30	2.60	2 68	2.6B	2.70	2.80	
heet. ONS.				+							
MinneaPolie (\$/bu) 2/	3.95	4.21	3.70	3.25	3.90	2.70	2.81	2.77	2.82	3.13	
ice. S.W. Le. (\$/cwt) 3/	18.00	19.38	17.98	16.11	17.50	10.25	9.94	10.13	10.13	9.96	
eat											
porte (et) bu)	1,509	1,429	1,424	8,15	78	92	68	58	77	NA	
ill grind (mil bu)	656	694	676	015 707	60	70	66	65	60	NA	
mest flour production (mil cwt)	292	308	301	317	27	31	29	29	27	NA	
CO											
xports (mil cwt, rough equiv)	68.9	70.3	62.1	58.7	2.6	8.1	6.5	4.6	5.2	5.4	

	Merketing year 1/			198	5		1987			
	1983/84	1984/85	1985/86	June-Sept	Oct-Dec	Jan-Mar	Apr-May	Jun-Aug	Sept-Nov	Dec-Feb
Wheat Stocks, beginning (mil bu) Domestic use:	1,515	1,399	1,425	1,425.2	2,971.1	2,526.1	2,130.0	1,905.0	3,154.6	2,671.5
Food (mil bu) Feed & seed (mil bu) 4/ Exports (mil bu)	643 469 1,429	65 t 502 1 . 424	676 371 915	223.7 334.7 326.6	176.8 24.9 247.3	166.9 4.9 226.1	110.7 1.8 115.3	171.1 379.7 320.6	187.7 35.2 264.2	NA NA NA

1/ Beginning June 1 for wheat and August 1 for rice. 2/ Ordinary protein. 3/ Long-grain, milled basis. 4/ Feed use approximated by residual. NA = not sveilable.

Information contacts: Allen.Schienbein and Jenet Livezey (202) 786-1840.

Table 19.—Cotton

Table 13.—Collon									_	
•		Marketin	g year 1	/		1:	986		1	267
	1982/83	1983/84	1984/85	1985/86	Feb	Oct	Nov	Oac	Jen	Feb
U.S. price, 5LM. 1-1/16 in. (cte/lb) 2/	63.1	73.1	60 5	60.0	59.6	44.0	45.7	54.2	57.2	54.8
Northern Europe prices: Index (cte/1b) 3/	76.7	87.6	69.2	46.9	54.5	51.2	52.8	59.2	65.7	65.9
U.S. # 1-3/32" (cte/lb) 4/	78.0	87.1	73.9	64.8	70. t	52.4	54.3	62.1	65.3 620.8	64.8 582.8
U.S. mill consumption (thou bales) Exports (thou belos)	-	5,927.0 6,786.0	-		522.5 192.9	660.4 341.6	554.4 571.3	555.5 543.7	612.5	NA NA
Stocke, beginning (thou bales)	6.632			4, 102 13	.121	10,049 1	2,053 13	3,207 13	.248	12,716

1/ Seginning August 1, 2/ Average spot market. 3/ Liverpool Dutlook "A" indax: sverage of five lowest priced of 10 selected growths. 4/ Memphis territory growths.

Information contect: Bob Skinner (202) 786-1840.

_		Marketir	g year 1,	1		19		1987		
	1982/83	1983/84	1984/85	1985/86	feb	Oct	Nov	Dec	vian	Feb
Wholasale prices										
Corn, No. 2 yellow, Chicago (s/bu)	2.98	3.46	2.79	2.35	2.49	1.51	1.68	1.66	1.57	1.50
Songhum, No. 2 yellow, Kaneas City (S/owt)	4.80	5.22	4.46	3.72	3.80	2.60	2.70	2.62	2.50	2.57
Berley, fast, Minneapolis (5/bu)	1.76	2.48	2.09	1.53		1.50	1.463	1.23		
Barley, maiting, Minneapolie (5/bu)	2.53	2.84	2955	2.24	2.20	1.93	2.02	1.88	1.81	1.92
Exports Corn (mil bu) Feed grains (mil metric tons) 2/	1.034 53.0	1.902 56.5	1.865 56.6	1,241 36.6	121 3.4	125 4 /4	115 3,, 6	3.6	104 3.11	NA NA

		Morketi	ng year t	/	19	965		19	986	
	1982/83	1983/84	1964/85	1985/66	June-Aug	Sept-Nov	Dec-Feb	Mar-May	June-Aug	Sept-Nov
Stocke, beginning (mil bu)	2,537	3,523	1,006	1,648	2,836	1,648	8,615	6,587	4.990	4.040
Domestic use: Feed (mil bu) Food, seed, ind. (mil bu) Exports (mil bu) Total use (mil bu)	4,521 895 1,834 7,249	3.818 975 1,902 6,694	4,116 1,055 1,865 7,036	4,126 1,129 1,241 6,496	612 280 296 1,168		1.305 259 465 2.029	1,093 302 204 1,599	507 296 154 956	1,394 275 321 1,990

1/ September 1 for corn and sorghum; June 1 for cate and barley. 2/ Aggregated data for corn, aorghum, cate, and barley. Information contacts: Dave Hull (202) 786-1840.

Table 21.-Fats and oils

14010 211 1413 4110 5110								_		_
		Marketing	ymar 1/				1986			1987
	1982/83	1983/84	1984/85	1985/86	Jan	Sept	Oct	Nov	Dec	Jan
Soybeana										
Wholesale price, No. 1 yellow.										4 08
Chicago (\$/bu) 2/	6.11	7.78	5.88	5.20		4.74	4.74	4.96	4.88	4.90
Crushinga (eil bu)	1,107.8	962.7	1,030.5	1.052.8	99.€	78.4	107.0	109.3	107.6	110.3
Exports (mil bu)	905.2	742.8	598.2	740.0	84.7	30.2	89.7	96.6	88.2	71.3
Stocks, beginning (mil bu)	254.5	344 6	175.7	316.0	119.6	28.5	38.3	108.1	127.4	117.2
Soybean 011										
Wholesale price, crude.										
Decatur (cta/1b)	20,62	30.55	29.52	18.0	20.63	13.94	14.63	14.68	14.94	15.55
Production (mil 1b)	12,040.4	10.872.0	11,467.9	11,620.4	1,085.8	889.3	1,166.5	1,171.5	1,150.2	1,185.6
Domestic disap. (mil 16)	9.857.3	9.598.6	9.916.7	10,062.8	807.2	877.6	999.1	867.5	888.4	785.0
Exports (mil 1b)	2.024.7	1.813.6	1.659.8	1.257.2	80.6	223.4	146.5	27.4	25.3	67 9
Stocks, beginning (mil lb)	1.102.5	1,260.9	720.5	632.5	969.4	1,152.2	846.6	963.6	1,268.9	1,506.5
Soybean meal										
Wholesale Price, 44% protein.										
Decatur (5/ton)	187.19	188.21	125.46	154.90	153.25	165.20	165.40	154.00	149.60	146.80
Production (thou ton)	26.713.6	22.756.2	24.529.3	24,957.8	2.343.8	1.878.7	2.521.3	2,562.8	2,527.3	2,540.7
Domeatic dissp. (thou ton)	19.306.0	17.615.2	19,481.7	19.122.3	1.739.5	1,644.6	2.005.8	1,575.4	1,788.7	1,944.7
Exports (thou ton)	7,108.7	5,359.7	4.916.5	6.007.0	590.3	312.9	511.5	818.4	877.7	592.8
	175.2	474.1	255.4	387.0	358.4	298.3	211.7	218.0	387.3	240.3
Stocke, beginning (thou ton)	175.2	414.1	239.4	00710	-30.4					
Margarine, wholesals price,	41.1	46.3	55.4	42.1	43,99	38.00	38.69	38.88	39.55	39.25
Chicago, white (cts/lb)	41.1	46.3	33.4	4611	43.55	30.00	20.03	20170		

<sup>1/</sup> Beginning September 1 for soybeens; October 1 for soymeal and oil; calendar year for margarine. 2/ Seginning April 1, 1982, prices based on 30-day delivery, using upper end of the range.

Information contacts: Roger Hoskin (202) 786-1840; Tow Bickerton (202) 786-1691.

					Calc	ender yes	ır <b>s</b>					-
B. A. C.	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 F
Production (thou ton) 12,036	14,586	14.700	(\$,242	14, 255 (	3,329	16,484	15.105	12.057	13,608	10.792	(0.48#	5/
Per capite consumption (15s) Non citrus	1/ 119.5	117.0	(18.0	108.1	108.8	113.1	104.7	110.0	120.7	103.2	115.4	119.4
Per capita Consumption (1bs)	12.384	11.846 84.4		12.460 13 83.3	3.689 85. <b>9</b>	15,152 87.4	17,961 88.2	14.217 89.3	14, F54 89.2	14,290 93.4	14.230 95.1	13.934 94.0
			,			1986						1987
	Nar	Apr	May	June	July	Aug	Sept	Oct	Nov	Oec	Jan	Feb
Fob Shipping Point Prices						-						
APPIBE (S/carton) 2/	14.85						17.0					
Pears (\$/pox) 3/	15.50		24.18			14.6						
Oranges (\$/pox) 4/	3.85											
Graperruit (\$/box) 4/	3.94	4.22	B. 20	5.98	6.13	67	6 6.6	3 6.2	9 4.	19 4.5	4 4.5	4.55
Stocks, Anding												
Frash apples (e11 lbs)	1.039.3	612.6	267.2	118.8	25.4	7.9	2.349.5	4,142.7	3,532.3	2.091.7	2.307.2	1.720.2
Fresh Pears (mil 1bs)	71.6	35.5	4.9	.7	75.0	124.4	325.1	333.2	281.2	214.7	170.9	120.9
Frozen fruits (mil  bs)	544.6	496.9	461.4	558.1	719.6	741.1	740.7	855.6	777.	720.9	632.3	556 2
Frozen orange juice (mil lbs)	911.5	1.031.6	1.047.5	1.056.9	920.3	855.3	715.4	\$77.6	524.1			1.015.5

i/ Per capite consumption of both fresh and processed fruit is fresh weight squivalent. Eighteen fruit items are not included in this
year's new per capite consumption series. 2/ Red Delicious. Washington. Extra fency, carton tray pack, 80-113's. 3/ S'anjou, washington.
standard box wrapped, U.S. No. 1, 90-135's. 4/ U.S. aquivalent on-tree returns. 5/ As of April 1, 1987. No. 4 not evailable.
F = forecast.

Information contact: Ben Huang (202) 786-1767...

Table 23. - Vegetables

rable 23. – vegetables										
					Cale	ndar year#				
	1977	1978	1979	1980	1961	1982	1983	1984	1965	1986
Production										
Total vag@tablas (1.000 cwt)	1/ 402.936	382, 165	413.925	381.370	379.123	431.515	403,320	457,392	453.769	445,436
Fresh (1.000 cwt) 1/ 2/	176,541	182,563	190,859	190.228	194.694	207.924	197.919	217.132	217.932	213.724
Processed (tons) 3/	11,319,750	8.980.100	11, 153, 300	9.557.100	8,221,460	11, 179, 590	10.270.050	12.013.020	11.791.860	11.585.630
Mushrooms (1,000 lbs)	398,703	454,007	470.069	469,576	517, 146	490.826	561.531	595,681	587,956	NA
Potstoes (1,000 cwt)	355,334	366,314	342,447	302.857	338 . 591	355.131	333.911	362.612	407,109	352.274
Sumetpotatoes (1,000 cut)	11.885	13,115	13.370	10.953	12.799	14.833	12,083	12,986	14.853	12.754
Dry adible beens (1,000 cwt)	16,555	18.935	20.552	26,729	32,751	25,563	15,520	21.070	22,175	22.888
					1986					1987
	Feb	Nar	Apr I	tay dune	July	Aug Sep	t Oct	Nov	Oec de	n feb
5hipments						_				
Freeh (1,000 cwt) 4/	16.643	17.454	9,210 32	927 26,825	27.818	17,579 15.1	74 19.275	15,967 15	,766 20.6	07 18.066
Potatoss (1,000 Cwt)	10,726	11,953	13.604 16	,037 9,882	7.757	8.066 7.9	107 11.332	9,928 10	,836 14.5	69 10.729
Sweetpotstoes (1,000 gwt)	313	413	227	250 177	160	96 , 2	46 428	706	389 2	79 259

<sup>1/ 1983</sup> data are not comparable with 1984 and 1985. 2/ Estimate reinstated for separagus with the 1984 crop, all other years also include broccoll, carrots. Cauliflower, celery, sweet corn. Lettuce, honeydews, onions, and towatoes. 3/ Estimates reinstated for successors with the 1984 crop, all other years also include snap beens, sweet corn, green pees, and towatoes. 4/ Includes snap beens, broccoll, cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, aggplant, lattuce, onions, bell pappers, squash, towatoes, centeloupes, honeydews, and watermelbos. MA = not evaliable.

Information contact: Shannon Hamm (202) 786-1767.

Table 24 - Other commodities

Table 24.—Other comm	rodities									
			Annual				198	6		1987
	1902	1963	1984	1985	1906 F	Jan-Nar	Apr-June	July-Sept	Oct-Dec	Jan-Mar
Sugar										
Production 1/	5.936	5.682	5,890	5.969	6.275	1,615	728	2.685	2.052	1,568
Dalivaries 1/	0.153	8.812	8.454	8.035	7,810	1.834	1.013	2,069	1,970	1,900
Stocks, anding 1/ Caffee	3.068	2,570	3.005	J, 126	3,130	3,384	2,540	1.652	2.079	3.345
composite green price N.Y. (cte/1b)	132.00	131.51	142.95	137.46	185.18	215.33	190.79	174.92	159.69	115.38
Imports, green bean equiv. (aillion lbs) 2/	2,352	2,259	2.411	2.550	2.596	<b>010</b>	653	635	498	690 F
		Annual		1905				1986		
	1884	1985	1986	Owc	July	Aug	SePt	Oct	Nov	Dec
Tobacco										
Prices et auctions 3/		4			4				4 -0	4 4 4
. Flue-cured (doi/lb)	1.01	1.72	1.52	NQ	MQ	1.44	1.60		1.40	NQ
Burley (dol/1b) Domestic consumption 4/	1.80	1.59	1.57	1.60	NQ	NQ	NQ	NO	1.58	1.57
Cigarattes (bii)	600.4	594.0	584.0	48.0	38.4	51.4	50.0	52.0	49.2	48.8
Lorge Cigars (ail)	3,493	3.226	3.090	238.1	270.4	251.7	272.3	268.5	220.9	261.6

<sup>1/ 1.000</sup> Short tons, raw value. Quarterly date shown at and of each quarter. 2/ Green and processed coffes. 3/ Crop year duty-dune for flue-cured, October-September for burley. 4/ Texable removals. F = forecast. NQ = no quote.

Information contects: (sugar) Dave Harvey (202) 786-1769; (coffee) Fred Gray (202) 786-1769; (tobacco) Verner Grise (202) 786-1768.

Table 25.-World supply and utilization of major crops, livestock and products

	1980/81	1981/82	1982/83	1983/84	1984/85 E	1985/86 P	1986/87 F
				Million units			
Wheet		_		* *			207.0
Ares (Nectors) Production (metric ton) Exports (metric ton) 1/ Consumption (metric ton) 2/ Ending stocks (metric ton) 3/	237.0	238.7	237.7	229.1	231.4	229.8	227.9
Production (matric ton)	443.0	449.5	477.5	489.5	511.6	499.0	529.2
Exports (metric ton) 1/	94.1	101.3	98.7	102.0	107 0	499.0 84.9 487.5 137.1	647 3
Consumption (metric ton) 2/	445.8	443.6	462.2	482.3	125.6	137 4	149 0
Ending stocks (metric ton) 3/	76.2	67.0	102.3	109.2			
Coeres grains		249 0	220 7	335 3	335 5	340.0	336.2
Promieston (	722 0	766 A	794 4	687 4	814 1	844 6	835.2
Fronts (metals too) 1/	108.0	96.6	89.6	91.2	100.7	83.4	85.5
Consumption (maters ton) 2/	745.1	737.7	753.1	762.2	783.2	770.8	796.3
Ares (Nectors) Production (metric ton) Exports (metric ton) 1/ Consumption (metric ton) 2/ Ending stocks (metric ton) 3/	90.6	96.6 737.7 120.7	151.8	76.9	107.8	340.0 844 6 83.4 770.8 181.6	220.5
Rice, milled					444.4	4.4.4	144.4
Area (hectare)	144.5	145.2	141.1	144.3	144.4	144.4	247.0
Production Instric ton)	271.0	280.6	285 /	308.0	115	12.0	11.5
exports (metric ton) 4/	13.1	11.8	200.3	300 0	314 2	317 6	321 4
Area (hectare) Production (metric ton) Exports (metric ton) 4/ Consumption (metric ton) 2/ Ending stocks (metric ton) 3/	22.1	21.3	17.3	17.2	22.2	320.1 12.8 317.6 24.7	21.2
							_
Ares (hectars)	723.9	733.8	718.5	708.7	711.3	714.2	708.5
Production (metric ton)	1,446.9	1,496.1	1,547.6	1,484.3	1,644.9	1.663 7	1,682.3
Exports (metric ton) 1/	215.2	209.7	200.2	205.8	219.2	181.1	185.2
Consumption (metric ton) 2/	1,463.2	1,462.8	1,505.5	1,553.3	1,593.0	1,575.9	1.635.0
Area (hectare) Production (metric ton) Exports (metric ton) 1/ Consumption (metric ton) 2/ Ending stocks (metric ton) 3/	190.9	229.0	27,1.4	203.6	255.5	343.4	390.7
Olisseds Found (material ton)	129 R	138 9	143.6	136.5	150.7	153.9	155.2
Production (matric too)	154.9	169.4	178.2	165.6	190.9	195 8	196.5
Exports (matric ton)	31.3	35.9	35.2	33.0	32.9	34,1	34.7
Crush (metric ton) Production (metric ton) Exports (metric ton) Ending stocks (metric ton)	15.8	13.5	20.5	15.8	21.2	26.8	29.7
Meals		94.5	70.4	G 2 8	101 R		105.7
Production (metric ton)	88.8		98.1 31.6	29.6	32.3	103.9	33.9
Exports (metric ton)	26.9	26.8	21.9	29.6	34.3	33.0	33.4
Production (metric ton)	39.1	41.6	43.4	42.3	46.2	49.3	49.4
Exports (metric ton)	12.6	13.4		13.7		16.4	16.0
Cotton						24.7	60.0
Ares (hectors)	32.1	33.0	31.4	31.0	33.9	31.7	25 G
Production (bele)	65.0	71.2	68.0	67.7	30.5	70.3	12.4
Exports (bals)	19.7 65.8	20.2	31.4 68.0 19.4 68.1	19.4	20.5	20.3	80.7
Consumption (beis) Ending stocks (bals)	21.3	20.2 66.0 21.1	25.9	25.0	42.7	31.7 78.9 20.3 76.8 45.9	34.2
	1981	1982	1983	1984	1985		1987 F
Ged meet	*****				**********		
Production (mi) metric tons)	93.6	93.9	96.4	98.1	101.8	102 . 2	102.5
Consumption (mil metric tons)	92.0	92.2	94.7	96.1	99.7	100.9	101 0
Exports (mil metric tons) 1/	5.7	5.8	5.8	5.9	6.3	6,1	6.4
Poultry	22.5	23.1	23.5	24.2	25.2	26.1	27.4
Production (Mil metric tons)	22.5	22.7	23.5	24.0	24.8	25.6	26.9
Consumption (mil metric tons) Exports (mil metric tons) 1/	1,5	1.4	1.3	1.2	1.2	1,2	1.3
Datry	000	225 4	443 E	413.0	447.0	423.2	423.2
Milk production	309.7	396.9	412.5	413.0	417.9	443.4	723.2

E = estimated. P = Projected. F = forecast. 1/ Excludes intre-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years and do not represent levels at a given date. Oata not evailable for all Countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calender year data. 1981 data correspond with 1980/81, etc.

Information contact: Frederic Suris (202) 786-1693.

Table 26. - Prices of principal U.S. agricultural trade products

	Annual				1986				1967	
	1984	1985	1986	Feb	Sept	Oct	Nov	Dec	Jan	Feb
Export commodities					207		,,,,,	044	Ogain	, 40
Wheet, F.o.b. vessel,										
Quif ports (\$/bu)	4 . 17	3.73	3.19	3.57	2.63	2.86	2.90	2.97	3.00	3.09
Corn, f.o.b. vessel, Gulf Ports (\$/bu)	3.50	2.69	2.27	2.67	1.71	1.69	1.69	1.89	1.77	1.74
Grain sorghum.										
f.o.b. veessl. Gulf Ports (\$/bu)	3.00	2.64	2.16	2.46	1.73	1.81	1.69	1.84	1.75	1.75
Soybeens, f.o.b. vessel, Gulf ports (\$/bu)	7.36	5.83	5.45	5.63	5.37	5.13	5.24	5.14	5.13	5.08
Soybean off, Decetur (cts/1b)	30.75	27.03	16.36	18.34	13.64	14.61	14.66	14.68	15.45	15.21
Soybean meel, Decetur (\$/ton)	166.80	127.15	157.62	153.28	166.19	152.85	154.05	149.54	147.65	153.24
Cotton, 8 market svg. spot (cts/1b)	66.37	58.55	53.47	59.81	33.56	43.91	45.75	54, 15	57.17	54.75
Tobacco, svg. Price at suction (cts/1b)	170.64	172.05	154.26	162.27	151.92	145.48	146.40	146.40	144.90	145.82
Rice, f.o.b. mill, Houston (\$/cwt)	19.47	18.49	14.60	17.50	13.00	13.00	13.00	13.00	11.13	10.50
Inedible tellow, Chicago (cts/lb)	17.47	14.33	9.03	11.81	8.10	8.44	8.47	9.40	10.69	11.00
Import commodities										
Coffee, N.Y. spot (\$/1b)	1.46	1.42	2.01	2.26	2.03	1.87	1.67	1.46	1.27	1.20
Rubber, N.Y. spot (cts/lb)	49.70	41.91	42.87	42.76	45.29	46.87	44.78	44.67	45.93	46.51
Cocoa beens, N.Y. (\$/1b)	1.06	.99	.88	. 86	. 96	.91	. 87	, 86	, 86	. 85

Information contact: Many Taymourian (202) 786-1692.

Table 27.—Indexes of nominal and real trade-weighted dollar exchange rates

			_				1886					1987	
		Apr	Nay	June	July	Aug	Sapt	0ct	Nov	0ec	Jen	Feb	Ner
							March	1973-100	)				
Total U.S	. t	rede 1/						1010 100					
Non inal		116	116	113	114	110	108	107	107	108	101*	99+	99=
							Apr 11			100	101	0.0	0.3
	1	A					арт П	1971-100	,				
Agr (cu) tu													
Nominal :	17	4.500	4.511	4.498	4.567	4,661	4.680	4.733	4.794	4.903	5.238	6.102	6.953
Real 3/		85	84	85	85	67	8.7	69*	904	89*	86*	85*	65*
Spybe en#													•-
Nontrial 3	2/	105	103	103	161	250	266	280	294	305	314	327	343
Reel 3/		76	74	75	75	75	75	75 *	76*	75*	71*	70*	70*
Wheat						, ,		10	, 0	13	7111	70*	10-
Nominal :	2/	26.457	26,533	26,449	45 400		05 544						
	.,				26.499	26.501	26,514	26.733	27.020	27.616	29.557	34,601	39.697
Real 3/		101	100	101	100	102	102	109*	110*	108*	107=	109*	112*
Corn													
Nominal :	2/	4.086	4.095	4.083	4, 172	4.297	4.320	4,369	4,430	4.534	4.842	5.631	6,407
Reml 3/	-	78	77	77	78	80	WO.	90*	604	80*	76*	76*	76 *
Cotton										00	1.0	10	10
Nominal 2	1	227	226	233	231	230	233	236	207	427	004	000	
Reel 3/		93	92	92	81				237	237	234	\$33	233
Nee : 3/		9.3	9.2	9.5	111	90	91	92*	924	921	90*	804	89*

1/ Federal Reserve Board index of trade-weighted exchange value of the U.S doller against 10 other major industrial country currencies, plus Switzerland. These currencies dominate the finencing of U.S total trade. 2/ Nominal values are percentage Changes in currency units per doller, weighted by proportion of agricultural exports from the United States. An increase indicates that the dollar has appreciated. 3/ The real index deflates the nominal saries by consumer price changes of the Countries involved, resulting in divergence between nominal and real indexes when high-inflation countries figure significantly. The nominal Federal Reserve index shows little divergence between nominal and real indexes because of Similar inflation rates exong the Countries included.

Information Contact: Edward Wilson (202) 786-1688.

Table 28.—Trade balance

					Fiscal ye	erB*				Jan
	1979	1980°	1981	1982	1983	1984	1985	1986	1987 F	1987
					5.0	111110n				
Exports										
Agricultural	31,979	40.481	43.780	39.095	34,769	38.027	31,201	26,325	26,000	2,236
None@f1Cu1ture1	135,839	169.846	185,423	176.310	159,373	170.014	179.236	176,613	NA NA	13.590
Tatel 1/	167,818	210.327	229.203	215,405	194 , 142	208.041	210,437	202.938	NA	15,826
49 foulturel	16,186	17.276	17,218	15.481	16.271	15.916	19.740	20.875	20,000	1.605
Monagriculturel	177.424	223.590	237.469	233.353	230.629	297.736	313.722	342.855	NA.	27.899
Tatel 2/ Trade belence	193.610	240.866	254.687	248.834	246,900	316.652	333,462	363.730	NA.	29.504
Agriculturel	15,793	23.205	26.562	23.614	FB , 498	19.111	11,461	5,450	6,000	631
Nonegricul turs!	-41.505	-53.744	-52.046	-57.043	-71.256	-127.722	~134.486	-166.242	NA.	-14.309
fotel	-25,782	-30.539	-25.484	-33.429	-52,758	-108.611	-123,025	-160.792	NA	-13,678

"Fiscal years begin October 1 and and September 30. Fiscal year 1986 began Oct. 1, 1985 and ended Sept. 30, 1986.
1/ Domestic syports including Department of Defense shipments (F.A.S. value). 2/ Imports for consumption (Gustoms value).
NA \* not evailable. F \* forscast.

Information contact: Stevs MacDonald (202) 786-1621.

Table 29. - U.S. agricultural exports and imports

		Fisce	1 years*		den		Fiece	1 years*		Jen
	1984	1985	1986	1007	F 1987	1984	1985	1986	1987 F	1987
			Thouse	nd units				\$ million		
Exports										
Animale, live (no) 1/	754	996	570		17	276	255	344	~ =	22
Nests & preps., excl. poultry (et)		427	45 1 48 1	2/	400 50 23	92 <b>9</b> 393	906 414	1,012	400	1 10 24
Deiry Products (et) Poultry seats (et)	4 18 225	423 234	265	300	30	280	257	282	400	34
Fate, Oile, & greases (mt)	1,395	1,217	1.355		1,300 95	703	608	477	-	33
Hides & skins incl. furskins		~~	~ =			1,310	1,325	1,456		142
Cattle hides, whole (no) 1/	24.283	25,456	25.973		1.939	1.010	1,019	1,150		93
Mink Paits (no) 1/ Grains & Feeds (et)	2,551 108,194	2,237 93,903	2.697 74.437		229 6,061	17.304	13,285	65 9.476		a.200 631
Wheat (at)	41,699	28.523	25.490	26,500	1,760	6,497	4,264	3,259		3.000 181
Wheat flour (mt)	1,071	718	1,137	1,300	146	234	164	204		20
Rice (nt)	2,293	1,972	2.382	2.600	167	897	677	648	500	41
Feed grains, inc), products (mt)	55,546 7,021	55,362	36,293	40,400	3,066	8.217	6.884	3,819 1,289	3,000	132
Feads & fodders (mt) Other grain Products (mt)	564	6.533 795	8,381 754	0/ :	8.500 882 52	1.216	1,004	257		21
Fruite, nuts, and preps. (mt)	1.931	1,907	2.003		163	1,594	1.687	1,766		145
Fruit juices incl. froz. (hl) 1/	5.598	4,641	3.652		304	223	200	148		13
Vegetables & preps. (et)	1.527	1,420	1,467	**	137	999	946	1,000		95
Tobacco, unmanufactured (mt)	227	257	224	200	29	1,433	1,588	1,318 678	1,400	163 130
Cotton, excl. linters (et) Seeds (et)	1,481	1,277 289	482 269	1,400	133 45	2,395 326	1,945 352	366	1,700	55
Suger, come or best (mt)	285	355	375	**	76	74	65	75		11
Gilemads & Products (nt)	26,961	23.803	27,557		2.569	8.602	6,195	6.266	7/	6.000 528
Oflseeds (mt)	20,466	17,886	20,684		21,100 1.5		4,324	4,394		386
Soybeane (nt)	19.265	16.621	20, 139	20.700	1,940	5,734	3,876	4,174	4,000	374
Protein seal (mt) Vagetable oils (mt)	5.060 1.435	4.606	5.588 1.284	5,500	548 58	1,217	853 1.018	1,127 746	1,000	110
Essential Oils (mt)	11	12	7		1	96	105	105		10
Other	465	443	568		43	1,082	1.069	1,126	de de	90
fotal	143,794	125,967	109,941	116.500	9.455	38.027	31,201	26.325	26.000	2.236
Importe										
Animele, live (no) 1/	1,907	2.120	1.885		220	596	569	637	700	51
Meate & prepag, excl. poultry (mt)		1, 123	1,139	1,127	97	1.931	2,214	2,248	2.400	206
Beef & vest (at) Pork (at)	550 328	674 416	693 406	712 415	56 3 <b>8</b>	1,165	1,295 847	1,252 900	1,500	109
Dairy Products (st)	382	418	400	410	26	757	763	786	800	57
Poultry and products 1/						122	93	101		8
Fets, 0118, & grasses (mt)	16	21	22		2	13	16	17		2
Hides & extre: Incl. furexine 1/			**			216	240	200		20
Wool, unmanufactured (mt) Greins & feeds (mt)	59 1,805	43 2,070	53 2,311	2,580	5 254	193 534	145 604	160 668	700 -	15 59
Fruits, nuts, 5 preps.,	11003	2,010	2,511	21300	4.54	544	-	440		
excl. juices (mt)	4.036	4,483	4,637	4.830	367	1.634	1,891	1.976	2.000	153
Bananas & plentains (mt)	2,727	3.022	3,042	3,100	246	666	752	740	700	64
Fruit juices (ht) 1/	27,247	35.112	31.539	28.000	3,570	671	995	698	600	73
Vegetables & preps. (mt)	2,093	2.140	2,199 208	2,260	229 14	1,314	1,347 556	1.560	1.500 700	127 40
Tobacco, unmanufactured (mt) Cotton, unmanufectured (mt)	190 32	191 31	41	220	3	17	17	14	700	1
Seeds (mt)	82	92	89	88	13	97	91	111	100	.15
Nursery stock & cut flowers 1/						292	316	353	8.00	10
Sugar, cane or beet (mt)	2,829	2.338	1,905	1,900	168	1,144	812	654		51
Oileand & products (nt)	1,137	1.271	1,508	1.789	133	799 95	784 98	639 69	600	46 3
Oilmeeds (mt) Protein meal (mt)	223 118	253 159	197 138		16	21	17	15		2
Vegetable oils (mt)	797	859	1,173		110	683	670	555		40
Beverages excl. fruit juices (hl)			15,488		948	1,547	1.622	1,848		112
Coffee, taa, cocoa, spices (mt)	1.776	1,868	1,940	1.868	152	4,777	4.983	6,099	5,400	428
Coffee, incl. producte (mt)	1, 128	1,126	1.223	1.160	82	3,300 1,058	3.244	4,400	3,800 1,200	274 112
Cocce beene & products (mt) Rubber & allied gums (mt)	451 809	539 7 <b>9</b> 9	507 801	525 800	52 54	854	1.285	1,189 615	600	46
Other		7-3				844	800	885		68
Total						18.916	19.740	20.875	20,000	1,605

<sup>\*</sup>Fiecel years begin October i end end September 30. Fiecal year 1986 began Oct. 1, 1985 and ended Sept. 30, 1986. -- not sveilable. 1/ Not included in total volume. 2/ Forecaste for footnoted items 3/-8/ are based on elightly different groups of composition. Fiecal 1986 exports of categories used in the 1987 forecasts were: 2/ 413 thousand mt. 3/ 1,306 thousand mt. 4/ 8.648 million. 5/ 3,489 million. 1.m. includes flour. 6/ 8,218 thousand mt. 7/ 6,439 million. 8/ 20,481 thousand mt. f = forecast.

Information Contact: Steve MacDonald (202) 786-1621.

Table 30. - U.S. agricultural exports by regions

	****	P15C81	years*		Jan	Ur)	ange from	,	+61.	Jan
agion & country	1984	1985	1986	1987 F	1987	1984	1985	1986	1907 F	198
			\$ m111:	On				Percen	t	
Western Europe	9.265	7, 183	6,857	6,700	717	-9	-22	-5	-3	- 1
European Community (EC-12)	8,650	6.668	6,442	6,300	681	9	-23	-3	-2	-1
Selgium-Lux@nbourg	836	470	361		49	3	-44	-23	40.44	-:
France	510	396	431	D-47	44	-1	-22	9		(
Germany, Fed. Rep.	1,260	900	1,001		127	-13	-29	11		- 10
Italy	771	677	693		96	-4 -21	-12 -14	2		_
Nether lands	2.227 790	1.926	2.042 628		192 52	-4	-20	Ö		-1
United Kingdom Portugel	702	502	308		20	10	-28	-39		-3
Spain, incl. Canary Islands	1,232	832	723		73	3	-32	-13		-4
Other Western Europe	615	515	415	400	36	- 10	- 16	- 19	_8	_
Suitzerland	311	232	126		13	- 12	-26	-45	-2	2
estern Europe	741	532	447	400	В	-10	-28	-16	0-	-8
German Dem. Rep.	132	81	52		0	.7	-39	-36		-9
Polend	197	126	42		0	-15	-36	-66		-B
fugoslavia	180	137	134		2	~18	-24	-2		-6
Romania	155		112		4	35	-43	27		
228	2,512	2,525	1,105	600	0	156	f	-56	-45	-10
818	15.209	11.933	10,498	10,700	912	12	-22	- 12	2	-2
west Asia (Mideast)	1.865	1,452	1.243	1,300	97	36	-22	-14 -13	<b>8</b>	-8
Turkey	222	129	111		4	693 31	-42 -12	-13		-4
lreq Israel	423 351	37 f 300	32 t 255		22 26	20	-15	-15		-3
Soudia Arabia	497	381	335		20	11	-23	- 12		-
South Asia	867	599	517	400	16	-26	-31	-14	-2	-6
Bangtagesh	157	205	94		3	3	31	-54		- 1
India	376	129	90		6	-51	-66	-30		
Pekisten	285	228	285		1	33	-20	25		-9
China	692	239	68	100	35	27	-65	-63	٥	28
Japan	6,935	5.663	5.139	5.100	474	18	-18	-9	0	-
Southeast Asia	1,218	842	725	800	47	1	-31	-14	14	-
Indonesia	438	204	172	10.00	9	_7	-53	-16		-2
Philippines	300	285	270		18	<sub>∓</sub> 2,1	-5	-5		4
Other East Asia	3.631	3,138	2,787	3,000	243	10	-14	-11 -17	3	_
Talvan	1.409	1.342	1,108		89 122	64	-5 -23	-17		
Korea, Rep.	1.816	1,400	399		32	18	-3	1		_
Hong Kong	407	396								
frica Worth Africa	2.868 1.542	2.527	2.135 1.402	1,400	1 <b>55</b> 136	16 6	- 12 -22	-16 16	-5	-1
Morocco	341	156	159		15	52	-54	2		-6
Algeria	162	220	330		18	-20	36	50		-3
Egypt	682	766	875		100	#3	-13	14		5
Sub-Sehara	1,327	1.320	733	600	18	62	-1	-44	-14	-6
Nigeria	345	367	158		3	.4	6	-57		-6
Rep. S. Africa	525	189	70		2	304	-64	-63		-4
atin America & Caribbaan	5.279	4,570	3.599	3.900	268	9	-13	-21	8	-
Brazil	438	557	444		35	10	27	-30		-3
Caribbean Islands	827	771	T52	700	77	.7	-7	-2	0	4
Central America	396	361	334	400	19	11	-9	-7	33	1
Colombita Maxico	220 1.966	238	137	1,400	4 79	-14 (1	-20	-42 -29	27	-6 -2
Mexico Peru	227	1,566	1,115	1,400	9	-12	-53	2	27	2
Vanezueta	778	721	493		26	26	-7	-32		8
enada	1,936	1.727	1.466	1.600	194	4	-11	- 15	7	
caania	216	204	216	300	23	-4	-16	<u> </u>	ő	3
Total	38,027	31.201	26,325	26.000	2.236	9	-18	-15	สใ	-13
eveloped Countries	19.180	15.225	13.963	13,600	1.394	14	-21	- 8	-3	-6
ese Developed Countries	14.902	12.680	10.721	11.300	798	7	-15	-15	6	
Centrally Planned Countries	3,845	3,296	1.640	1,100	43	67	-16	-50	-31	-75

<sup>&</sup>quot;Flacal years begin October 1 and end September 30. Fiscal year 1986 began Oct. 1, 1985 and ended Sept. 30, 1986. F = forecast. -- not available.

Note: Adjusted for transshipments through Canada.

Information contact: Stevs MscDonald (202) 786-1621.

Table 31. - Farm income statistics

		Calandar years											
		1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 P	1987	F
							\$ b11	tion					
и.		97.5	114.3	133.8	142.0	144.1	147.1	140.9	146.4	148.5	139	133 1	to 135
	Crops (incl. net CCC loans)	48.6	53.2	62.3	71.7	72.5	72.4	67.0	69.2	72.7	63	57 1	to 59
	Livestock	47.6	59.2	69.2	65.0	69.2	70.2	69.5	72.9	69.4	71	70 1	to 72
	Ferm releted 1/	1.2	1.9	2.2	2.3	2.5	4.5	4.4	4 3	6.4	5	4.1	to 6
2.	Direct Government Payments	1.8	3.0	1.4	1.3	1.9	3.5	9.3	8.4	7 7	12	15 1	to 17
	Cash payments	1.8	3.0	1.4	1.3	1.9	3.5	4.1	4.0	7.6	8	8 1	ta 10
	Velue of PIK commodities	0.0	0.0	0.0	0.0	0.0	0.0	5.2	4.5	0.1	4	6 t	to B
3.	Total gross farm income (4+5+6)	108.8	128.4	150.7	149.3	166.3	163.4	152.4	174.4	166.5	15B	155 1	to 157
4.	Grose ceen income (1+2) 2/	99.3	117.3	135.1	143.3	146.0	150 €	150 2	154.9	156.2	150	149 1	to 151
5.	Nonmoney income 3/	8.4	9.3	10.6	12.3	13.8	14.1	13.2	13.3	11.5	10	8 1	to IO
6.	Value of Inventory change	1.1	1.9	5.0	-6.3	6.5	*1.3	-10.9	6.3	- F. I	-3	-4 4	to -2
7.	Cesh expenses 4/	71.4	84.2	101.7	109.1	113.2	113.8	113.0	115.6	112.1	106	102 1	to 104
	7otal expenses	88.9	103.2	123.3	133.1	139.4	140.7	139.5	141.7	136.1	129	123 1	to 125
9.	Net cesh income (4-7)	27.8	33.1	33.4	34.2	32.8	36.8	37.1	39.3	44.0	44	46 t	to 48
10.	Net ferm income (3-m)	19.9	25.2	27.4	16.1	26.9	22.7	13.0	32.7	30.5	29	31.0	to 33
	Defleted (1982\$)	29.5	34.9	34.9	18.8	28.6	22.7	12.5	30.3	27.3	26	26 t	to 28
11	Off-form income	26.1	29.7	33.8	34.7	35.8	36.4	37.0	37.9	40.8	43	43 1	to 45
12.	Upen changes 5/: Reel estate	7.6	7.6	13.0	9.3	9.4	4.0	2.5	-Q.B	-5.6	-5	-2 t	to -4
13.	5/: Nonreal setsta	6.8	8.3	10.0	5.9	6.2	3.4	1.0	-0.8	-9.2	-6	-2 t	to -4
14.	Rentel income Plus monetary change	3.5	4.1	6.3	6.1	6.4	6.4	5.7	7.8	8.0	7	6 1	to 8
15.	Capitel expenditures 5/	15.0	17.9	19.9	18.0	16.8	13.7	13.0	12.5	10.1	ė		to B
16	Net com flow (9+12+13+14-15)	30.8	35.1	43.7	37.5	37.9	37.0	33.3	33.0	27.1	32	40 t	to 42

Information contact: Richard Kod? (202) 796-1808.

Table 32.-Balance sheet of the U.S. farming sector

					Ce	lendar yea	irš				
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 P
						\$ billion	3				
Assets											
Renl astate *	453 5	507.7	600.7	704.2	779.2	780.2	745.6	736 1	638.6	559.6	504
Non-resi autate	136.9	149.0	183.0	213.8	224.0	225.0	232.2	220.4	216.5	211.9	198
Liventock & poultry Machinery & motor	29.0	31.9	51.3	61.4	60.6	53.5	53.0	49.7	49.6	45.9	45
vehicles	63.9	69.9	78.2	90.8	96.8	103.0	103.7	100.9	95.0	92.2	89
Crops atored	22.1	24.8	28.0	33.5	36.5	36.1	40.6	33.2	33.7	37.1	30
financial assets	21.9	22.4	25.5	28.2	30.1	32.4	34.9	36.5	38.1	36.7	35
Total farm assets	590.4	656.7	783.7	918.1	1.003.2	1,005.2	277.8	956.5	856.1	771.4	702
Limbilities											
Regl estate	50.3	56.0	65.€	78.5	67.8	97.2	101 2	103.7	102.9	97.3	89
Non-real antets	46.6	52.4	66.4	76.7	82.5	91.6	102.4	98.7	95.8	94.8	79
CCC loans	1.0	4.5	5.7	5.1	5.0	8.0	15.4	10.8	8.6	16 9	19
Other non-real estate	45.6	52.4	60.7	71.6	77.5	83.6	97.G	87.9	87.1	77.9	68
Total form liabilities	97.0	114.9	131.9	155.2	170.4	198.8	203.6	202.4	198.7	192.1	176
Total farm equity	483.5	541.0	651.8	762.9	832.9	816.4	774.2	754.0	657.3	579.3	526
						Parcent					
Selected ration					·						
Debt-to-ennete	16.4	17.5	16.8	16.9	17.0	185.8	20.8	21.2	23.2	24.9	25.1
Debt-to-equity	18.6	20.0	19.3	12.6	19.7	23.1	26.3	26.8	30.2	33.2	33.6
Debt-to-net cash income	323.2	412.3	398.2	464.4	497.7	576.1	553.0	545.5	505.B	433.2	400.8

<sup>\*</sup> Excludes farm household. P = Preliminary.

Information contact: Richard Kodl (202) 786-1808.

Micry 1097

Table 33. - Cash receipts from farm marketings, by States

		Livestock B	Producte			Cri	ops i/				tel 1/	
Region												
State			Dec	den	'ione	1005	Dac	Jan .	2005	1986	Dec 1986	Jan 1987
	1985	1986	1986	1987	1985	1986	1986	1987	1985	1986	1306	1961
						\$ m11	110n 2/					
North Atlantic												
Matra	244	247	30	21	138	134	13	15	303	38 1	33	36
New Hampenire	70	70	6	- 6	36	38	4	3	107	108	9	9
Vermont	352	362	31	33	34	36	5	. 2	386	308	36 42	34 27
Meseachusetts	126	125	11	10	363	291 63	32	16	387 76	416 77	10	4
Rhode Telend	14	14	1	1 17	62 151	162	10	29	355	366	30	46
Connect lout	204	204	19 156	166	720	705	79	47	2.565	2.544	235	213
New York	1.845	1,839	12	12	456	434	26	18	600	580	38	30
New Jersey	2, 184	2.179	179	192	1.015	920	90	95	3,198	3.099	269	287
North Central	2.104	4. ***	110									
Onto	1.511	1.510	127	115	2.500	1,994	240	173	4.11E	3.504	367	388
Indiana	1.728	1.730	159	135	3.064	2,170	281	152	4.792	3.900	440	386
131 10018	2.063	2.065	183	174	5.914	4,595	638	709	7,977	6,660	822	883
Michigan	1.231	1,232	109	99	1,698	1,416	204	133	2.929	2,648	313	232
Williametr	4.100	4.110	346	353	1.024	902	131	102	5.124	5.012	477	485
Minnesote	3,370	3,379	276	270	3.220	2,555	436	364	6,591	5,934	712	634 1,217
Iowa	4.010	4,070	4 15	403	4.581	4.023	887	814	8.393	8.901	1.302	385
Millsouri	1.024	1,927	172	155	1.768	1,545	263	230 144	3.692	3,472 2,140	435 191	219
North Dekate	686	671	54	75	1.157	1.469	127	100	2,687 3,057	2.140	249	281
South Dekots	1.900	1.094	148	18 1 298	3.227	2.557	503	488	1.340	6.670	m79	786
Nebreska	4.113	4,113	376	286	2,555	1.047	241	276	5,819	5.108	519	564
Kansas	3.264	3,262	278	200	8,333	1,447	244	2.0	3.010	71100		
Southern	352	352	25	35	134	117	- 6	4	487	469	32	39
Delevara Maryland	772	777	60	71	458	369	25	18	1.230	1.145	85	89
Virginia	1.062	1,063	72	82	629	489	42	28	1.691	1,551	114	110
Wast Virginia	182	182	15	14	53	60	7	7	245	252	22	21
North Carolina	1.947	2.016	173	162	1,981	1,560	151	56	3.920	3,576	324	219
South Carolina	415	414	31	36	627	429	49	24	1.042	843	80	60
Georgie	1,727	1.725	133	150	1.564	1.354	90	55	3.291	3.079	223	205
Florida	1.015	1,010	65	91	3.597	3,780	324	255	4.613	4,790	388	345
Kentucky	1,352	1.201	78	90	1,583	1,063	343	138	2.935	2.344	421	228 146
Tannessee	1.080	1.110	75	88	1,093	857	160	57	2,173	1.967	234 132	146
Alebana	1.301	1.303	B1	106	781	560	51	40	2.062	1.863	208	160
Millerseippi	1,010	1.018	75	86	1.234	675	133 97	74	2.244	1.694	218	209
AFRENBOS	1,825	1.866	121	137	1.511	866 838	184	117	1,505	1.360	213	155
LOUIBlane	491	522	29	38 132	956	638	59	37	2.681	2.381	191	169
Ok 1 éhona	1,726 5,441	1,744 5,386	132 377	325	3,927	3.027	166	290	9.367	0.413	543	615
Texps	3,441	3.344	311	323	31941	3.021	100	200	31207	41415		
Western Montana	802	003	82	99	422	417	46	58	1.224	1,220	128	157
Idaho	862	862	63	84	1,220	1,020	128	89	2.082	1,882	191	173
Wyoming	479	477	32	41	123	112	18	В	601	589	50	50
Colorado	2.019	2,017	185	143	1.098	893	138	77	3.117	2.910	322	220
New Nexico	718	718	40	73	374	310	31	1 B	1,092	1.028	7.1	90
Artzona	700	714	25	45	862	838	119	137	1.562	1.552	143	182
Uten	413	415	33	30	142	133	- 11	14	555	549	49	44
Nevada	144	144	10	12	81	73	8	9	225	217	18	21
Washington	932	926	78	74	1,890	1.769	146	132	2.823	2.695	224	207
Gregon	622	622	65	51	1,11B	1,112	88	74	1,740	1.734	153	125 948
Catifornia	4.161	4, 170	362	326	10.026	10.057	865	623	14.1B7 27	14.227	1.227	2
Alaska			1	1	19	21 497	42	1 42	545	579	49	48
Hava11	63	62	7 5,611	7	462 74.762	62.664	7,852	6.496	144.297	132,346	13.462	12.131
United States	68,535	69.682	0,011	5.635	191762	44.004	1,402	0.430	1111897		12.704	

<sup>1/</sup> Sales of farm Products include receipts from commodities Placed under CCC loans minus walue of redemptions during the period. 2/ Estimates as of the end of current month. Rounded data may not add.

Information contact: Roger Strickland (202) 786-1804.

Table 34.—Cash receipts from farming\_\_\_\_\_\_

				nnu81		_	204 804		1986		1987	
	1981	1982	1983	1984	1965	1986	Jan	Sept	Oct	Nov	Dec	Jan
						\$ 8111	ion					
Fere marketings and CCC loans =	141,616	142,344	137.602	142.507	144.297	137,346	13.483	10.982	14.447	15.397	13.467	12.131
Livestock end products	69.151	70.249	69,453	73.042	69.535	69.682	5,434	5.954	6.430	6.743	5.611	5.605
Mest animals	39.748		36,893	40.832	38, 185	38.259	2,867	3.309	4,090	3.941	3.083	2.998
Dairy products	18.095		18.757	17.944	18, 135	18,135	1.531	1,458	1.546	1,483	1,544	1.500
Poultry and eggs	9,949		10.003	17,305	11.285	11,427	898	1.024	1.107	1,067	865	901
Other	1,358		1.800	1.960	1,930	1,861	137	163	116	252	110	137
Crops	72.465	72.095	68.349	69.465	74.762	62.664	8.049	5.028	7.617	0.649	7.852	6.496
Food grains	11.619		9,713	9.576	9,080	5.365	639	665	725	342	369	370
Feed crops	17.770		16.703	15.829	22,480	17, 190	3.256	734	1.701	2.823	3.014	2,569
Cotton (lint and seed)	4,055		3.705	3.270	4,046	2.713	845	- 128	482	179	555	48.1
Tobacco	3,250		2,768	2.041	2,722	1,901	179	404	270	182	417	167
Dil-bearing crops	13.853		13.546	13.894	12,620	10.321	1,533	893	1.922	F. 777	1.354	1,370
Vegatebies and majors	8,772		8.525	9,223	8.570	8.806	638	887	96B	458	449	727
Fruite and tree nuts	6,603		6,059	6,770	6,787	7,416	388	013	877	1,004	777	208
Dinar	6,543		7,130	₩,062	8,457	8.952	571	761	772	1,282	1.017	567
Government Payments	1,932	3.492	D. 295	0.430	7,704	11,396	6.9	939	792	418	1.690	479
Total		145,836	147,097	150.937	152,001	143,744	13.552	11.921	15.239	15.810	15.352	12.610

<sup>\*</sup> Receipts from loses represent value of commodities placed under CCC loses alous value of rademptions during the month.

Information contact: Roger Strickland (202) 786-1804.

Table 35. -- Farm production expenses

					Calen	dar years	_			
	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 P
					\$ m111	ion 2/				
Feed	13.967	16.036	19,314	20.971	20.855	18,592	21,725	19,850	19.588	18,816
Livestock	7.072	10, 150	13,012	10,670	8.999	9,696	8,814	9.498	8,991	9,317
Seed	2.494	2,638	2.904	3.220	3,428	3,172	2,987	3,447	3,369	3,129
Farm-origin inputs	23.523	28,824	35.230	34,861	33,282	31.460	33,526	32.795	31,948	31,262
Fertilizer	6.529	6,619	7,369	9,490	9,409	8.018	7.067	7,429	7.258	6.390
Fuels and oils	4,356	4.609	5.635	7,879	8.570	7,888	7.503	7,143	6,584	5.193
Electricity	1.069	1.389	1,447	1,526	1.747	2,041	2.146	2,166	2.073	2,115
Pesticides	1.938	2,656	3,436	3.539	4,201	4,282	4,161	4,768	4,965	4,729
Manufactured inputs	13.892	15,273	17,867	22,434	23,927	22,229	20.877	21.506	20.882	18,426
Short-term interest	4.203	5.167	6,868	8,717	10,722	11,349	10,615	10.396	8,821	7.322
Real estate interest	4.329	5,060	6, 190	T,544	9,142	10,481	10,815	10,733	9,878	8,753
Total Interest Charges	8.532	10.227	13,058	16,261	19,864	21,830	21,430	21,129	18,698	16,074
Repair and operation	5.430	6,638	7.280	7.648	7,587	7,730	7,543	7,850	7,450	7.303
Hired labor	7,131	8.279	8,982	9,294	8.932	10, 182	9,660	9,838	10.347	10.883
Machine hire and custom work	1,692	1,776	2.063	1.823	1,984	2.025	1,096	2,170	2,185	2,057
Dairy deduction	0	0	0	0	0	0	633	656	163	431
Other operating expenses	6,129	7.703	9,047	9,378	9,865	10.700	10,646	10.B60	11.522	11,260
Total Operating expenses	20,372	24,396	27.732	28,143	28,368	30,637	30,378	31,374	31,667	31,934
Depreciation	15,493	16,963	19,345	21,474	23,573	23.886	23,491	23,020	21,101	19,784
Taxes	3,660	3.603	3,871	3,891	4.246	4.394	4,323	4,384	4,423	4,526
Net rent to non-operator										
landlord	3.412	3.963	6,182	6,075	6,184	6,219	5.441	7,504	7,387	6.945
Other overhead expenses	22.565	24,529	29.398	31,440	36.003	34,499	33,255	34,908	32,911	31,255
Total production expenses	88.884	103,249	123,305	133,139	139.444	140.654	139.466	141,712	136,108	128,951

<sup>1/</sup> Includes operator household. 2/ Totals may not add due to rounding. P = praliminary.

Information contact: Richard Kodi (202) 786-1808.

Table 36. - Rail rates; grain and fruit-vegetable shipments; truck costs

		Annu#1				1986				1587
	1984	1985	1986 (	P Fab	Sept	Oct	Nav	Dec	Jan	Feb
Rail freight rate index										
(Dec 1984=100)										
All products	99.3	100.0	100.7	101.0	100.6	100.6	100.6			
Farm products	98.7	99.0	99.6	99.7	99.7	99.1	99.1	P 98.4 F	98.51	99.5 P
Grain	98.6	96.3	98.9	99.0	99.2	98.5	98.4 6	P 97.6 I	97.8 F	
Food producte	99.1	100.1	99.9	100.9	99.6	99.2	98.4	P 98.2 I	98.4	98.4 P
Grain										
Rail cerloadings (thou care) 2/	27.2	22.8	24.3	22.5	26.5	32.6	29.8	24.B	23.0	26.7 P
Fresh fruit & vegetable shipments										
Plagy back (thou cut) 3/ 4/	570	602	622	534	471 P	524 P	486 P	479 P	527 P	570 P
Rail (thou cyt) 3/ 4/	640	532	544	566	511 P	554 P	705 P	740 P	829 P	640 P
	B.006	B.258	8.549	7,596	6.096 P	8.162 P	8.511 P	8.345 P	8.180 P	B.006 P
Truck (thou cut) 3/ 4/	B,000	8,230	0.545	1,556	8,030 F	0, 102 F	9,311	0,545 /	. 100	B.000 .
a company and the second secon	67									
Cost of operating trucks having produce		440.4	449.4	445 4	444.0	444.0	112.4	113.0	114.9	115.0
Owner operator (cts/mile)	115.5	116.1	113.1	115.4	111.B	111.8				
Fleet operation (cts/eile)	115.3	116.7	113.6	116.5	112.2	112.4	113.0	113.5	115.2	115.2
								_		

1/ Department of Labor, Surgeu of Labor Statistics, revised March 1985. 2/ Weekly average; from Association or American Rating 3/ Meekly average; from Agricultural Marketing Service, USDA. 4/ Preliminary data for 1985 and 1986. 5/ Office of Transportation DEDA. P = preliminary.						
Information contact: T.O. Hutchinson (202) 786-1840.						
Indicators of Farm Productivity						
Table 37.—Indexes of farm production, input use, and productivity.						
(See the JanFeb. 1987 issue.)						
Information contact: James Johnson (202) 786-1800.						
Table 38.—Supply and use of fertilizer						
(See the June 1986 issue.)						
Information contact: Paul Andrilenas (202) 786-1456.						
Table 39.—Supply and use of major pesticides						
(See the Oct. 1986 issue.)						
Information contact: Stan Daberkow (202) 786-1458.						
Food Supply and Use						
Table 40.—Per capita food consumption indexes (1967 = 100)						
(See the Dec. 1986 issue.) Information contact: Harry Harp (202) 786-1870.						
Table 41.—Per capita consumption of major food commodities (retail weight)						

(See the Dec. 1986 issue.)

Information contact: Harry Harp (202) 786-1870.

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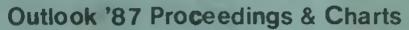
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